



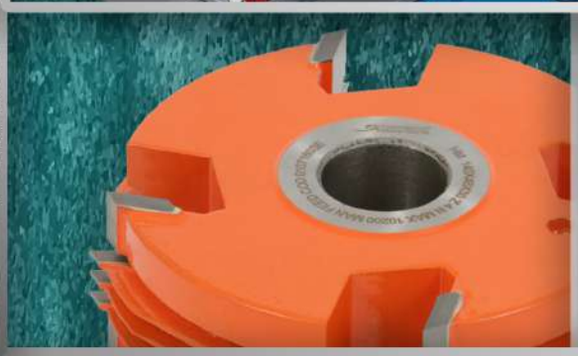



Catalog 2018-2020
INDUSTRIAL

Lista de preturi valabila intre 1 octombrie 2018 si 31 octombrie 2020













Concept

NOUL CATALOG INDUSTRIAL 2018-2020

Spre deosebire de ediţiile precedente, noul catalog CNS 2018 – 2020 schimbă din temelii concepţia prezentării catalogului pe branduri, cu care ne-a obişnuit Centrul National de Scule, cea mai importantă reţea de distribuitori autorizati de scule industriale din Romania. Coerenţa singurului catalog european care cuprinde toata gama de uneltar, fiind si cel mai complex, este asigurată de structurarea sa pe grupe de produse si tipodimensiuni, brandurile reprezentate ordonându-se sinergic potrivit vocaţiei proprii de a răspunde functionalităţii similare.

Ambiţia catalogului de a fi complet este susţinută şi de reunirea unor programe specializate (biţi, chei imbus, fierăstraie, topoare, mistrii, s.a.), care acoperă toată gama de tipodimensiuni, inclusiv mărimile intermediare pentru aplicaţii securizate, asigurând întreaga gamă de nevoi pentru aplicaţiile lor specifice si extrem de nişate (de pildă, inch si mm) si bifând practic toate dimensiunile (comune si de nişă, de la mic la mare).

Alte 400.000 de repere aparţinând celor peste 50 de branduri europene de top reprezentate în România în regim de exclusivitate vin să completeze în paginile proprii de cataloage produsele care se regăsesc în peste 900 pagini ale noului catalog.

În plus, alte mii de repere si tipodimensiuni pot onora orice cerere de produse noi după desenul clientului, furnizorii reprezentaţi fiind în cea mai mare parte producători.

La cerere, există soluţii pentru telecomunicaţii, industria aerospaţială, minerit, tehnică dentară, lucrări artizanale, s.a.

Cei mai mulţi dintre parteneri au si cea mai bună calitate şi cel mai bun preţ, doi parametri care lucrează în acelaşi sens şi nu în mod compensatoriu, sub formă de raport. Ei lucrează şi sub „private label” pentru branduri de notorietate, motiv pentru care nu sunt atât de vizibili în piaţă, cheltuielile lor de marketing fiind aproape inexistente (avantaj preţ).

Catalogul păstreaza caracterul generalist - 5 grupe mari de uneltar, respectiv, *scule de mână, *scule aşchietoare şi port-scule, *scule pentru industria lemnului, *scule electrice, pneumatice, hidraulice, electro-hidraulice, *scule şi instrumente de măsura şi control - în cadrul grupelor existând însă şi scule speciale, răspunzând nevoilor nişate, pentru utilizarea în domenii strict reglementate (scule electroizolante pentru lucrul sub tensiune la 1000V, scule antiexplozie, s.a.), pentru lucrul la înălţime, pentru instalaţii, pentru electronişti, service biciclete, ş.a.

Programul Kronus dezvoltat în România, protejat şi la nivel internaţional, „targetează” meşterul care are ştiinţa lucrului şi respectul de sine. Totuşi, repere din gama Kronus care satisfac calitatea industrială, cum ar fi sculele destinate decupării (cuttere profesioanale de simplă/dublă securitate şi lame), anumite grupe de scule industriale (chei cu deschideri mari până la 75-80mm, menghine, centuri port-scule), se regăsesc în catalog. Programul reprezintă încununarea unei bogate experienţe internaţionale în partnership cu peste 100 de producători, dintre care 35 sunt furnizori activi şi se concretizează prin socializare, împărtăşirea cunoştiinţelor, savoir – faire, generarea şi dezvoltarea unor tendinţe.

Toate produsele din catalog sunt în stoc şi se livrează „just in time”. Celelalte produse extra-catalog, inclusiv cele aproximativ 15000 de produse noi adăugate de firmele partenere, se livrează pe bază de precomandă, vorbind, probabil, despre cea mai bogată ofertă valorică şi tipo-dimensională, la nivel de distribuţie, în Europa.

*Pe lângă descrierile tehnice şi schemele detaliate care facilitează înţelegerea modului coerent de construcţie, catalogul cuprinde preţurile de lista în lei fără tva, precum şi un index de coduri pentru identificarea mai uşoară a poziţiei produselor.

**Digitalizarea catalogului vine în ajutorul clienţilor, sporind potenţialul de căutare după toate criteriile (alfabetic, cod, domeniu de întrebuinţare, produs, tipodimensiuni, brand, etc).

***Catalogul este disponibil pe site-ul aparţinând reţelei de distribuţie naţională şi beneficiarilor acesteia **www.centrulnationaldescule.ro.**

Catalog 2018-2020

INDUSTRIAL

Lista de preturi exprimate in lei fara TVA
valabila in perioada
1 octombrie 2018 pana in 31 octombrie 2020

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NEXUS

Extractoare si prese profesionale auto
Mecanice si hidraulice

Producator german de extractoare si prese, NEXUS ofera o gama completa de extractoare mecanice si hidraulice de largi dimensiuni, cu variate capacitati si stiluri. Acestea sunt realizate in conformitate cu standarde de calitate industriala. Testarea extractoarelor si preselor Nexus a dovedit durabilitate si performanta, chiar si în cele mai dificile medii.





METALMINOTTI
COOPER AND UNCONVENTIONAL COOPER ALLOYS

Scule antiscanteie

METALURGICA MINOTTI este unul dintre principalii producatori de scule antiscanteie, nemagnetice si rezistente la coroziune, realizate din aliaj propriu MZW si CuBe, recomandat pentru toate zonele de risc exploziv conform directivelor ATEX.
Industria chimica • Industria petrochimica • Industria farmaceutica • Industria miniera • Rafinarii • Fabrici de hartie • Fabrici de lacuri si vopsele • Fabrici de adezivi • Industria de armament • Industria navala • Companii de telecomunicatii • Depozite de combustibili si gaz • Distilarii

DIAGER®

Burghie pentru beton si zidarie - Carote pentru beton si zidarie - Burghie pentru placi ceamice - Dalti pentru beton si zidarie - Elemente de asamblare

Diager este mai presus de toate un producator independent. Acest privilegiu ii permite companiei sa ramana autonoma de la proiectare pana la productia industriala. Diager este un producator inovator cu peste 60 de ani de experienta si investitii constante care au permis o dezvoltare a produselor DIAGER si pentru a deveni un producator european de top de burghie de zidarie. In fiecare an DIAGER produce peste 20 de milioane de unitati.





Eklind®

Chei imbus

EKLIND este recunoscut ca fiind Nr. 1 la nivel mondial in productia de chei locas hexagonal in mm si inch: gama completa si profesionala de produse utilizand oteluri speciale de inalta calitate, adaptate filozofiei pragmatice americane. Printre brand-urile produse de Eklind se numara: Hex-L, Power-T, Ergo-Fold, Ball-Hex-Drivers.



OZAT 2000 LTD.

Scule pneumatice - Capete tubulare de impact - Chei de soc

OZAT ofera chei de soc de o buna calitate, scule pneumatice, accesorii si piese de schimb pentru sculele pneumatice, oferind o gama completa de capete tubulare de impact si produse conexe.

GRAVUREM

MASUS

Poansoane - Dispozitive de marcat

Gravurem este un program de poansoane adresat pietei industriale. Compania germana produce poansoane durificate la unul sau la ambele capete cu caracter continuu sau punctiform, pe dreptunghi sau pe cerc, pentru oteluri normale sau cu rezistenta la rupere foarte mare. Aplicatiile pentru care se pot folosi produsele Heidenpeter sunt nenumarate, existand chiar si posibilitatea executiei de poansoane conform desenului clientilor. Pentru orice astfel de comanda speciala termenul de livrare nu depaseste 3 saptamani. Din grupul Heidenpeter face parte, de curand, si firma MASUS, brand foarte cunoscut pe piata.





PORT-BAG®

Cutii de plastic - Organizatoare din plastic

PORT-BAG este un program specializat in productia de cutii si organizatoare din plastic. Productia integrata - atat matritele pentru injectat masa plastica, precum si produsele finite - asigura calitatea si design-ul deosebit, precum si posibilitatea de a oferi solutii personalizate cu executie conform schitelor clientului. Gama ofera posibilitati multiple de creare de solutii de depozitare si seturi de interventie.

STAYER

Masini de gaurit electrice cu si fara acumulator - Ciocane electropneumatice - Polizoare unghiulare - Fierastraie electrice - Utilaje pentru constructii - Masini pentru prelucrarea lemnului - Discuri diamantate - Aparate de sudura

Stayer este un producator de surubelnite electrice, masini de gaurit electrice cu si fara acumulator, ciocane electropneumatice, polizoare unghiulare, fierastraie electrice, utilaje pentru constructii, masini prelucrarea lemnului. Producatorul ofera o gama foarte variata de accesorii si consumabile. Calitatea Stayer se gaseste si in oferta de discuri diamantate, discuri abrazive si panze circulare placate CMS.



WILPU
MADE IN GERMANY

Panze pentru fierastrau vertical si orizontal
Carote - Fierastraie manuale - Panze pentru fierastraie manuale

WILPU este o companie specializata in dezvoltarea si productia de panze taietoare, panze fierastrau vertical, carote, panze sabie, panze fierastrau, fierastraie manuale, fiind considerat cel mai mare producator de consumabile de profil din Germania si unul dintre cei mai importanti la nivel mondial.





PILANA

Scule de mana - Panze de fierastrau
Panze bimetal - Panze continue

Pilana este un program de scule de mana si panze de fierastrau, panze bimetal, panze continue, de dimensiuni standard sau solicitate de client. Pentru ca productia sa fie foarte precisa sunt folosite cele mai moderne tehnologii: LASER, polizoare CNC, unelte de aschiere CNC, ascutitori CNC, cuptoare automate si alte dispozitive automate si semiautomate.
Experienta indelungata ii permite companiei sa ofere produse de inalta calitate.

AMPCO SAFETY TOOLS®
CARLTSO SAFETY TOOLS

Scule antiex

Programul **AMPCO Safety** avand sloganul/deviza **"Together we make your work safer"**, isi are obarsia in AMPCO METAL GRUP/ American Metal Product Company, avand locatiile principale în SUA, Franta, Olanda, Elveția. Este liderul mondial în scule antiexplozie din anul 1922, oferind cea mai largă gamă de produse.
Programul **Carltsoe Safety Tools**, se bucura de o experienta de peste 50 de ani in fabricatia sculelor antiexplozie. Oferta cvasicompleta de scule antiexplozie LIFE TIME WARRANTY acopera peste 3000 de produse fabricate din ambele aliaje: Aluminiu-Bronz si Beriliu-Cupru, pentru toate zonele ATEX: 0, 1 si 2, 20, 21 si 22, precum si M1 si M2, in minerit.

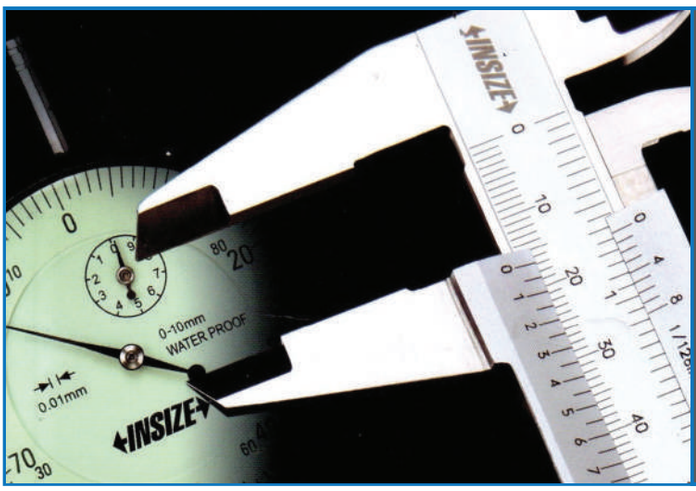




tovarna kos in srpov since 1881

Topoare

Compania din Tovarna Kos din Srpov a fost infiintata in 1881 de catre Heinrich Kieffer. In acest sens, a devenit un pionier al productiei industriale de unelte agricole din Europa. Peste 135 de ani de experienta si traditie in acest mestesug au dus la cresterea calitatii si rezistentei produselor. In ultimii ani s-a realizat un program de investitii si modernizare continua, pentru a raspunde cerintelor si asteptarilor crescande ale clientilor nostri.



INSIZE

Instrumente de masura si control

INSIZE este un furnizor dedicat de instrumente de masurare. Pentru a putea acoperi cererea pe piata mondiala, a creat o retea de distributie INSIZE la nivel global, astfel incat utilizatorul sa beneficieze de produse profesionale si de suport tehnic. Programul cuprinde intreaga gama de aparatura de masura si control pentru majoritatea segmentelor industriale.

BMS TORQUE SOLUTIONS

Chei dinamometrice electronice si mecanice - Surubelnite digitale - Testere cuplu - Traductoare de cuplu - Multiplicatoare de cuplu

De peste 30 de ani, BMS este un lider industrial in proiectarea, dezvoltarea si fabricarea de chei dinamometrice. Programul BMS cuprinde chei dinamometrice electronice, surubelnite digitale, testere electronice de cuplu, traductoare de cuplu, chei de torsiune, multiplicatori de cuplu si accesorii.





boa

Burghie pentru portelan - Carote - Panze diamantate pentru materiale dure - Nivele triunghiulare masive - Fierastraie pentru locuri inguste - Chei cu curea

BOA este un program de scule speciale, protejate, de conceptie proprie: burghie pentru portelan, carote, panze diamantate pentru materiale dure, nivele triunghiulare masive, fierastraie pentru locuri inguste, greu accesibile, chei cu curea cu peste 1000 de aplicatii - atat pentru uz casnic, cat si industrial.

kappa by JAR

Nivele

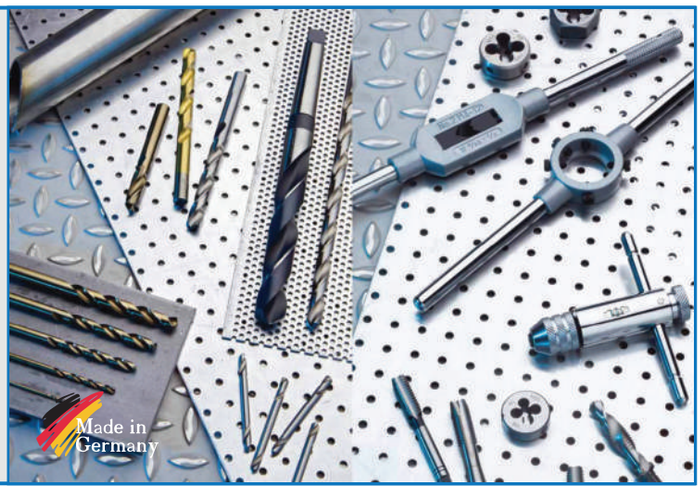
KAPPA este un producator de nivele profesionale cu si fara magnet, recunoscut pentru diverse tehnologii patentate (ex. sudarea bulei pe nivele cu ajutorul ultrasunetelor), fapt care pozitioneaza KAPPA in topul mondial al producatorilor din domeniu.



BOHRCRAFT

Burghie - Tarozi - Filiere - Carote - Biti

BOHRCRAFT este un program german cu o gama extinsa de accesorii de gaurire, taiere si fixare pentru specialisti. Marea varietate a gamei este rezultatul a peste 25 de ani de experienta.







TIVOLY

Burghie - Tarozi - Filiere - Freze - Carote

Proiectant si producator de scule de taiere si accesorii pentru scule electrice si masini-unelte, TIVOLY ofera o gama larga de produse, de la cele de bricolaj, pana la cele profesionale si industriale. Tivoly este un grup industrial care are ca misiune proiectarea, productia si comercializarea instrumentelor de taiere, precum si a produselor si serviciilor asociate concepute pentru o gama larga de aplicatii.

BIPICO

Panze de fierastrau - Panze bimetal - Panze continue

BIPICO este un program de panze de fierastrau, panze bimetal, panze continue de dimensiuni standard si solicitate de catre client, recomandate pentru toate tipurile de materiale feroase (oteluri) si neferoase, aliaje, materiale compozite / sintetice, stratificate, placi aglomerate si lemn, cu performante inalte de taiere. Calitatea superioara a panzelor BIPICO este controlata prin imbunatatirile periodice ale liniei de productie si procesului detaliat de Control al Calitatii.





Finie

Unelte pentru prelucrarea lemnului

Inca de la infiintarea sa, in 2000, compania Pinie Lubna, Ltd. s-a concentrat pe productia si vanzarea brandului Pinie® de scule din lemn pentru tamplarie. Brandul impreuna cu tehnologia de fabricare si materia prima au fost achizitionate in anul 2000 de la compania Pinie Čistá, Ltd.

Istoria brandului Pinie® dateaza din anul 1918. Initial, manerele din lemn au fost fabricate sub marca proprie, iar in 1932, a fost lansata productia de avioane din lemn. In acea perioada, avioanele de lemn reprezintau nucleul de productie al companiei.

In prezent, compania are 23 de angajati permanenti si produce mai mult de 500 de produse diferite pentru utilizatorii cu ridicata, cu amanuntul si consumatorii finali. Linia de productie include, in principal: scule de tamplarie, mese si bancuri de lucru pentru tamplarie si lacatuserie, precum si materiale conjunctive. Produsele Pinie® satisfac cele mai inalte criterii de calitate.



cobit
tool technology

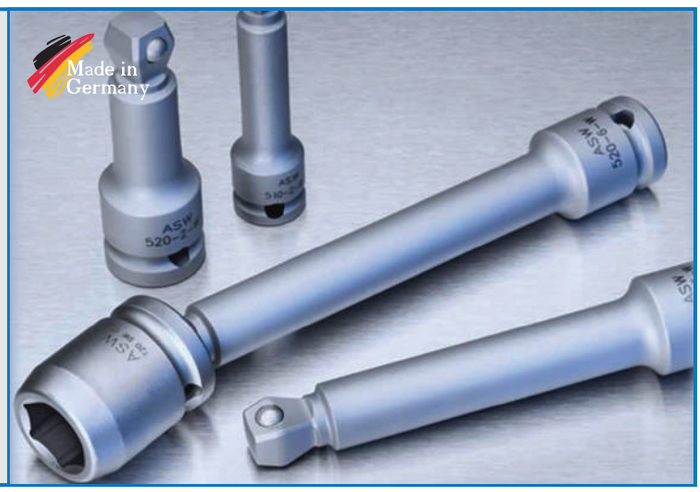
Biti - Accesorii biti - Burghie

COBIT este un program specializat pe biti si pe accesoriile care deriva din acestia. Producatorul s-a impus pe piata prin dezvoltarea permanenta de noi produse cu design, eficienta si calitate industriala. Toate produsele sunt fabricate pe utilaje moderne si indeplinesc cele mai inalte standarde de calitate. Pe langa produsele generale, COBIT produce si game licentiate, cum ar fi: TORX®, TORX-PLUS® si TTAP®.

ASW

Capete tubulare de impact - Biti - Accesorii biti

ASW este un producator eficient si flexibil, cu aproape 30 de ani de experienta in domeniul productiei de capete tubulare de impact si o gama larga de inovatii. Domenii de utilizare: automotive, energie eoliana, industria navala, petro-chimica, constructii industriale si civile, etc.





wekador

Biti - Accesorii biti

In cei peste 40 de ani de la infiintare, Wekador a dezvoltat continuu productia de biti si accesorii de cea mai buna calitate, atat pentru utilizatorii casnici, cat si pentru cei industriali.

USH
GERMANY

Biti - Accesorii biti - Burghie

Unul dintre cei mai importanti producatori de biti si accesorii din Europa, USH ofera o gama larga de produse, precum biti, surubelnite, prelungitoare magnetice, elemente antrenare biti, extractoare pentru suruburi rupte, burghie, etc.

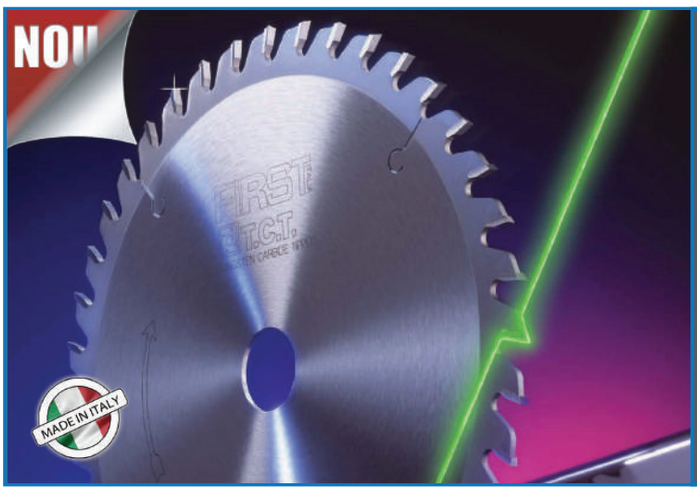


freud.

Scule pentru industrializarea lemnului

Lider in industria prelucrarii lemnului de peste 50 de ani.
Performantele de top ale frezelor cu coada marca Freud sunt rezultatul a doi factori: calitatea inalta si durata de viata.
Compania Freud utilizeaza in procesul de productie cele mai bune materii prime, utilizand cele mai noi si sofisticate procese de productie.
Fara reparatii, fara rupere, fara marcaje, fara presiune pe masina





FIRST

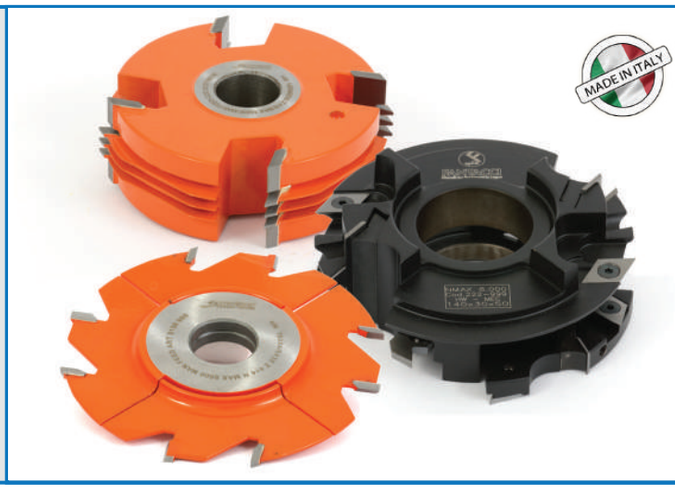
Scule pentru industrializarea lemnului

Infiintata in anii '60, FIRST a fost intodeauna o referinta constanta in Italia si in alte tari, pentru toti consumatorii care cauta scule fiabile si de inalta calitate.
O preferinta obtinuta prin imbinarea experientei artizanale cu utilizarea celei mai moderne tehnologii industriale.
Produsele marca First sunt fabricate in Italia si urmeaza un ciclu complet si automatizat de productie, care porneste de la debitarea materialului brut cu ajutorul unor CNC-uri cu laser; procesul continua sa dezvolte toate etapele, sub controlul constant al unui sistem informatic, ceea ce ii permite firmei sa atinga si sa mentina cel mai bun nivel de toleranta industriala

1966 FANTACCI Utensili per Serramenti in Legno
2002 DIAFANT Diamond Tooling

Freze cu alezaj - Capete de frezat cu alezaj

Fantacci Industrie SRL este producator de scule pentru prelucrarea lemnului cu renume mondial. In portofoliul acestuia se regasesc atat scule standard, cat si scule speciale, freze placate CMS, dar si cu placute amovibile.
Avand o traditie de peste 50 de ani, Fantacci Industrie isi perfectioneaza continuu produsele, astfel incat sa satisfaca cele mai inalte standarde de calitate. Ferestrele termopan realizate cu ajutorul seturilor de freze Fantacci sunt marcate CE, in conformitate cu Regulamentul pentru Produse de Constructii.





wellershaus Maschinenmesser

Panze continue

WELLERSHAUS este un program german de panze de fierastrau, panze bimetal, panze continue de dimensiuni standard si solicitate de catre client, recomandate pentru toate tipurile de materiale feroase (oteluri) si neferoase, aliaje, materiale compozite / sintetice, stratificate, placi aglomerate si lemn, cu performante inalte de taiere.



ABSINA
Es dreht sich um Einfachheit.

Chei universale

ABSINA dezvolta si face proiectarea produselor in Germania si le produce pe piata mondiala. Oferim produse inovatoare pentru uz profesional si industrial si pentru conexiuni cu surub. Simplificarea aplicatiilor, dezvoltarea si fabricarea instrumentelor de cea mai buna calitate, precum si vanzarile la nivel mondial a produselor noastre este scopul nostru, obiectivul si tinta. Pentru noi, siguranta si calitatea sunt primordiale. Avem multi ani de experienta in dezvoltarea, producerea si vanzarea sculelor de mana si surubelnite. Noi garantam siguranta produsului prin controlulul strict al calitatii. Prin disponibilitatea si seriozitatea noastra, ne puteti considera un partener de incredere. In ceea ce facem, mentalitatea noastra se concentreaza in mod deosebit pe protejarea mediului.

JOSEF HAUNSTETTER
SÄGENFABRIK KG GEGRÜNDET 1916

Panze pentru traforaj manual sau mecanic

Firma Josef Haunstetter Sägenfabrik a fost infiintata in anul 1916. Cei 100 de ani de experienta in producerea fierastraielor de mana, precum si a panzelor de bomfaier si traforaj au facut cunoscuta marca Haunstetter peste tot in lume.





METRIE

Metre de lemn

Metrie este o companie de productie si comercializare integral ceha, recunoscuta atat in Cehia, cat si pe piata europeana. De aproape 100 de ani, pune accent pe imbunatatirea calitatii si pe inovatie, pentru satisfacerea clientilor din domeniul constructiilor, firmelor de publicitate, utilizatorilor casnici si profesionali.

IREGA
THE ADJUSTABLE IS OUR WORLD

Chei reglabile

Irega este un producator specializat in fabricarea cheilor reglabile. Cheia Irega este principala referinta pe piata cheilor reglabile de calitate industriala. Datorita specializarii, Irega ofera o gama larga de chei reglabile pentru toate tipurile de profesionisti producand, in facilitatile proprii, cele mai bune chei reglabile de pe piata internationala.



KuDos®
Professional Hydraulic Tools.

Clesti hidraulici de taiat - Clesti hidraulici de sertizat - Pompe hidraulice

KUDOS este un producator profesional de scule hidraulice: clesti hidraulici de taiat, clesti hidraulici de sertizat si pompe hidraulice. Produsele au fost dezvoltate cu ajutorul celor mai moderne tehnologii americane si europene, respectand, in totalitate, cerintele standardelor ISO 9001, ISO 14001, IECQ QC 080001, OHSAS 18000 si SA 8000.





HEPCO&BECKER

Genti ABS

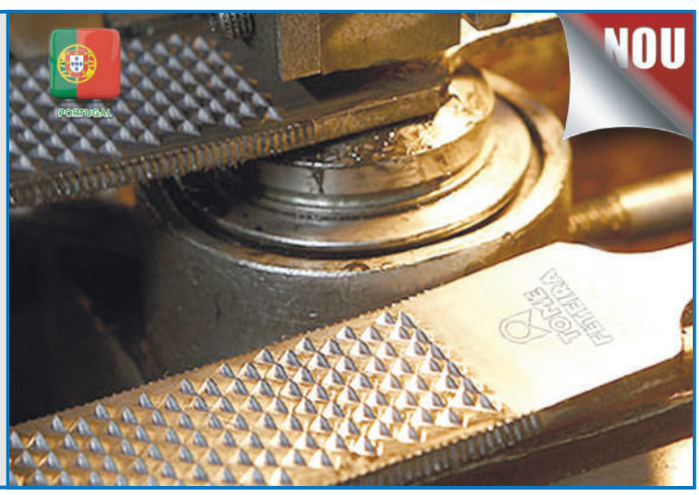
HEPCO&BECKER este cunoscut pentru productia proprie de genti ABS compartimentate special pentru toate structurile celor mai uzuale truse de scule:

- ELECTRONIST
- ELECTRICIAN
- ELECTROMECANIC
- ECHIPAMENTE DE INTERVENTIE RAPIDA

TOMÉ FÈTEIRA

Pile

Compania producatoare de pile Tome Feteira a fost fondata in 1856 de catre Joaquim Tomé Fèteira si a cunoscut o dezvoltare rapida, devenind un producator modern si diversificat, cu un nume recunoscut la nivel mondial in fabricarea produselor profesionale de inalta calitate.
Produse: pile, pile diamantate, pile pentru aluminiu, pile ac, pile pentru ascutit lant de drujba etc.





EDMA

Unelte pentru amenajari interioare si exterioare

Inca din 1937, compania EDMA fabrica scule de mana pentru constructori profesionisti: scule pentru gips-carton, unelte pentru zidarie, scule montaj podele si acoperisuri, scule prelucrare tabla etc.

AB TOKOS

Mistrii - Dristi - Spacluri

AB TOKOS este un program de scule pentru constructii. Fabricile Tokos au doua linii de productie: scule de mana pentru constructii si scule de mana pentru gradinarit. Marca TOKOS este un simbol al calitatii pentru clienti, sculele fiind rezistente si fiabile.





Plastica Panaro

Cutii pentru scule

Plastica Panaro a inceput sa functioneze in 1962, producand cutii de tacamuri intr-un atelier mic din centrul orasului Marano. Compania a extins apoi gama de produse si a intrat pe piata de cutii pentru scule, cutii ambalare, accesorii ecvestre si termoformare. Plastica Panaro a crescut de la un mic atelier de familie pentru a deveni un producator de frunte si exportator mondial, cu o forta de munca de peste saizeci de ani.

KRONUS
Professional Quality

Scule de mana

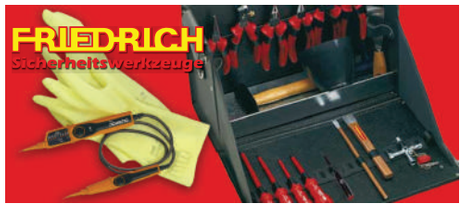
Sculele profesionale KRONUS sunt accesibile pentru amatori si confortabile pentru profesionisti avand eficienta sporita, siguranta in exploatare si durata de viata indelungata. In viziunea noastra,sculele de mana profesionale se diferentiaza esential de cele utilizate in regim industrial, atat prin gama de produse, cat sI prin numarul redus de tipodimensiuni. Sculele industriale servesc atat nevoii generale, cat si celor nisate, acoperind toata plaja de activitati, pe cand produsele profesionale sunt nelipsite acasa, acopera evantaiul de nevoi casnice, putand fi, deasemenea, folosite si in regim intens de utilizare.











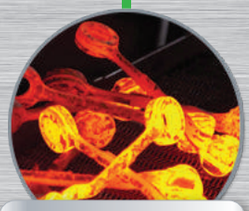












PIESE FORJATE



STORE STEEL (otel)

MASINI UNELTE SPECIALE

ZASTAVA (brose)

SCULE DE MANA



FORMING TOOLS







SINERGIA PROGRAMELOR

UNIOR®

In 2019 **UNIOR** implineste **100 de ani** de existenta!
Acestia inseamna 100 de ani de cercetare-proiectare si testare continua a prodselor pentru imbunatatirea permananta si constanta a calitatii, pentru atingerea celor mai bune performanta,



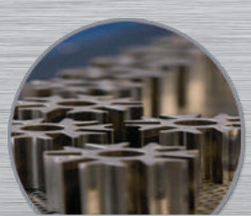
Legenda

UNIOR d.d.
2.105
angajati

Alte firme din grupul Unior cu activitate sinergica, unde UNIOR d.d. este actionar.
3.751
angajati



TURISM
Unitur



SINTERIZATE

AVANTAJE PENTRU UTILIZATORI PROFESIONALI:



Eficienta de cost furnizeaza o viata de cel putin 3 ori mai lunga decat in cazul altor scule standard.



Perfectiunea sculelor Union este reflectata in adaptarea completa la obiectul de lucru. Nu apar alunecari sau defecte.



Constructia sculelor Unior asigura durabilitatea si anduranta pe termen lung, ceea ce inseamna profitabilitate ridicata.



Sculele Union sunt proiectate si produse cu o perfecta relationare intre calitate si pret, aducand profitabilitate utilizatorului



Designul ergonomic al sculelor Union cere mai putin efort fizic



Parteneriatul de dezvoltare rezolva problemele specifice prin dezvoltarea sculelor specializate conform cererii utilizatorului



Functionalitatea sculelor Unior tools exprimata printr-o eficienta crescuta la lucru



Flexibilitatea si controlul proceselor UNIOR este reflectata in raspunsul rapid catre client



Valoarea adaugata a dezvoltarii sculelor asigura o productivitate sporita utilizatorului. Valoarea adaugata duce la o productivitate sporita



CHEI

Durata lunga de viata

Cheile Unior sunt forjate din otel Crom Vanadiu de inalta calitate, iar partile supuse sarcinilor mari au o densitate mai mare, ameliorandu-le in acest fel duritatea. Dimensiunile si procedeele de productie folosite maresc rezistenta si durata de viata

Profil de siguranta

Cu profilele sigure, cheile previn stricarea colturilor si a marginilor suruburilor si piulitelor distribuind sarcina in mod egal pe suprafata, la distanta de muchiile piulitelor si capetelor de surub, in loc sa actioneze direct pe acestea

Design inovator

Datorita designului inovator si conceptiei rezultate dintr-o tehnologie de varf, cheile Unior garanteaza un transfer de forta la capetele de suruburi si piulite precis si eficient

UNIOR IREGA OZAT 2000 LTD. WGB Das Werkzeug KRONUS

O procedura speciala de producere a cheii combinate de 24 mm

1. **Taiere:** Bara plata de otel este taiata la forma dorita cu o masina; acuratetea taierii asigura consumul minim de material de calitate

2. **Forjare:** Prin procedurile de forjare efectuate cu presele LASCO de renume mondial, duritatea cheilor combinate este marita. Tehnicile de forjare de clasa mondiala ne permit sa mentinem orientarea optima a fibrelor de material (la fel ca in barele de otel) ceea ce este critic in produsele expuse la sarcini mari si dinamice.



3. **Debavurare:** Eliminarea bavurilor (reziduuri de material dupa forjare) este efectuata cu o masina specializata. Pentru o decupare corecta, greutatea bavurilor de eliminat trebuie sa fie cat mai mica in raport cu piesa forjata



4. **Perforare:** Dupa etapele de forjare si debavurare, perforarile in piesa sunt facute prin ambutisare sau taiere. Acestea pot fi executate atat la rece cat si la cald.

5. **Debavurare si slefuire:** Prin tratamente mecanice sau chimice, muchiile ramase la forjare sunt rotunjite cu masini de debavurat, apoi contururile sunt slefuite cu materiale abrazive



6. **Marcare si indoire:** In concordanta cu ansamblul normelor, fiecare produs este marcat coprespunzator; apoi inelul cheii este indoit dupa cerinte



7. **Brosare:** La brosare, dimensiunea finala a cheii este facuta prin actiunea unei brose dotate cu mai multe lame. In uzinele Unor, profilul intern al inelului poligonal este obtinut cu masini de alezaj MAE.

8. **Calire:** Calirea prin incalzire si racirea ulterioara permit ameliorarea structurii metalografice si in acelasi timp optimizarea duritatii cheii. Acest procedeu prin tratament termic permite cheilor Unior durabilitate crescuta si o rezistenta marita la forte mari.



9. **Sablare:** Diverse substante abrazive sunt pulverizate pe suprafata cheilor UNIOR cu aer comprimat. Materiile abrazive curata suprafata cheii si furnizeaza asperitatea necesara aplicarii unui strat de protectie galvanica

10. **Cromare si lustruire:** Cheile sunt acoperite de un strat subtire de bioxid de crom pentru a le proteja impotriva coroziunii, uzurii sau altor fenomene agresive. Cromajul da de asemenea un aspect stralucitor, mai atractiv vizual









Chei fixe	18
Chei reglabile	23
Chei combinate	26
Chei inelare	30
Chei cu clichet	35
Chei de soc	37
Chei cu gheara	39
Chei tubulare	40
Chei pipa	42
Chei pentru ateliere auto	43
Chei imbus	47

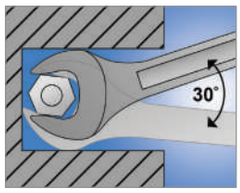


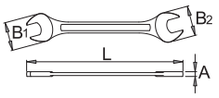
110/1

Cheie fixa dubla

- *material: crom vanadiu*
- *forjare, calire si revenire totala*
- *finisarea suprafetei: acoperire cromare conform EN12540*
- *capete polizate*
- *conform standardului ISO 10102 (numai pentru dimensiunile in mm)*







UNIOR

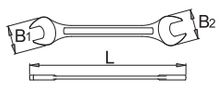
		L	B1	B2	A				
603316	4 x 4.5	100	13.6	13.6	3.4	10	4A	10	**15,66**
603317	4 x 5	100	13.6	13.6	3.4	10	4A	10	**15,66**
603318	5 x 5.5	100	13.6	13.6	3.4	10	4A	10	**15,66**
600060	5.5 x 7	121	14.4	16.4	3.4	15	4A	10	**17,95**
600061	6 x 7	121	14.4	16.4	3.4	15	4A	10	**12,74**
600062	7 x 8	140	18.4	22.9	3.7	24	4A	10	**14,84**
600064	8 x 9	140	18.4	22.9	3.7	24	4A	10	**13,13**
600065	8 x 10	140	18.4	22.9	3.7	23	4A	10	**16,20**
600066	9 x 10	159	22.7	24.2	4.5	40	4A	10	**16,49**
600067	9 x 11	159	22.7	24.2	4.5	40	4A	10	**17,95**
600068	10 x 11	159	22.7	24.2	4.5	43	4A	10	**16,20**
600069	10 x 12	172	26.2	29.2	4.5	58	4A	10	**19,21**
600070	10 x 13	172	26.2	29.2	4.9	59	4A	10	**20,24**
600072	11 x 13	172	26.2	29.2	4.9	58	4A	10	**20,24**
600074	12 x 13	172	26.2	29.2	4.9	58	4A	10	**18,34**
600075	12 x 14	172	26.2	29.2	4.9	58	4A	10	**20,24**
600076	13 x 14	192	31.2	33.2	5.4	81	4A	10	**20,38**
600077	13 x 15	192	31.2	33.2	5.4	84	4A	10	**20,87**
600078	13 x 17	200	31.2	37.7	5.7	101	4A	10	**22,04**
600079	14 x 15	192	31.2	33.2	5.4	83	4A	10	**19,60**
600080	14 x 17	200	31.2	37.7	5.7	101	4A	10	**22,04**
600081	15 x 17	206	35.7	37.7	5.7	108	4A	10	**24,61**
600082	16 x 17	206	35.7	41.5	5.7	108	4A	10	**22,28**
603121	16 x 18	213	35.7	41.5	6.2	133	4A	10	**24,91**
600083	17 x 19	223	39.5	41.5	6.2	143	4A	10	**25,20**
600084	17 x 22	223	39.5	41.5	6.2	193	4A	10	**30,69**
600085	18 x 19	223	39.5	41.5	6.2	148	4A	10	**24,91**
600086	19 x 22	232	43.5	46	6.7	183	4A	10	**29,48**
600087	19 x 24	232	43.5	46	6.7	243	4A	5	**33,61**
600088	20 x 22	232	43.5	46	6.7	180	4A	10	**28,70**
600089	21 x 23	249	46	52	7.2	235	4A	5	**30,06**
600090	22 x 24	249	46	52	7.2	237	4A	5	**32,64**
600091	22 x 27	249	46	52	7.2	301	4A	5	**44,46**
600092	24 x 26	265	51.8	55.3	7.7	289	4A	5	**36,58**
600093	24 x 27	265	53.8	55.3	7.7	289	4A	5	**41,54**
600094	24 x 30	279	53.8	58.8	8.2	341	4A	5	**52,54**
600095	25 x 28	279	62.8	58.8	8.2	344	4A	5	**40,23**
600096	27 x 29	309	62.8	67.3	9.2	535	4A	5	**57,16**
600097	27 x 30	309	62.8	67.3	9.2	527	4A	5	**58,33**
600098	27 x 32	309	62.8	67.3	9.2	541	4A	5	**50,30**
600099	30 x 32	309	62.8	67.3	9.2	532	4A	5	**54,48**
603848	30 x 34	315	62.8	68.8	9.6	568	1C	5	**62,41**
602593	30 x 36	319	62.8	78.8	9.6	591	1C	1	**97,58**
600100	32 x 36	327	68.8	78.8	9.6	653	1C	1	**97,92**
600101	34 x 36	327	68.8	78.8	9.6	628	1C	1	**117,82**
600102	36 x 41	360	78.8	86.8	9.6	823	1C	1	**127,55**
605549	38 x 42	360	78.8	86.8	9.6	822	1C	1	**148,71**
602594	41 x 46	410	86.8	94.8	14.6	1735	1C	1	**185,87**
602595	46 x 50	460	94.8	103.9	15.6	2365	1C	1	**247,46**
605348	1/4" x 5/16"	121	14.4	16.4	3.4	15	4A	10	**13,82**
605349	5/16" x 3/8"	140	18.4	22.9	3.7	24	4A	10	**14,35**
605350	3/8" x 7/16"	159	22.7	24.2	4.5	40	4A	10	**17,56**
605351	7/16" x 1/2"	172	26.3	29.2	4.9	58	4A	10	**21,21**
605352	1/2" x 9/16"	192	31.2	33.2	5.4	81	4A	10	**21,21**
605353	9/16" x 5/8"	192	31.2	33.2	5.4	83	4A	10	**21,21**
605354	5/8" x 11/16"	206	35.7	37.7	5.7	108	4A	10	**24,08**
605355	11/16" x 3/4"	223	39.5	41.5	6.2	143	4A	10	**26,90**
605356	13/16" x 7/8"	249	46	52	7.2	237	4A	5	**30,99**
605357	15/16" x 1"	265	51.8	55.3	7.7	301	4A	5	**39,89**
605358	1" x 1.1/8	279	53.8	58.8	8.2	344	4A	5	**43,54**
605359	1.1/16" x 1.1/4"	309	62.8	67.3	9.6	527	4A	5	**54,00**

111E/2

Cheie fixa dubla

- *material:crom vanadiu*
- *finisarea suprafetei: acoperire cromare conform EN12540*
- *capete polizate*
- *forjare, calire si revenire totala*
- *conform standardului ISO 10102*





UNIOR EUROTOOLS

	B1 x B2	L	
611785	6 x 7	121	**9,69**
611786	8 x 9	140	**10,10**
611787	8 x 10	140	**11,74**
611788	9 x 11	159	**13,27**
611789	10 x 11	159	**11,94**
611790	12 x 13	172	**13,74**
611791	12 x 14	172	**14,92**
611792	13 x 14	192	**16,04**
611793	13 x 15	192	**16,50**
611794	14 x 15	192	**15,79**
611795	13 x 17	200	**19,43**
611796	14 x 17	200	**19,43**
611797	16 x 17	206	**18,86**
611798	16 x 18	213	**20,86**
611799	17 x 19	223	**22,45**
611800	18 x 19	223	**22,50**
611801	19 x 22	232	**26,29**



	A x B	L	
611802	20 x 22	232	**25,93**
611803	21 x 23	249	**27,06**
611804	22 x 24	249	**29,47**
611805	24 x 26	265	**32,85**
611806	24 x 27	265	**38,49**
611807	25 x 28	279	**37,93**
611808	27 x 32	309	**47,36**
611809	30 x 32	309	**51,10**

110/1CB

Set de chei fixe in cutie de carton



UNIOR

600105	6 - 22 / 8	724	1F	1	**156,00**
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				
600106	6 - 32 / 12	2140	1F	1	**313,18**
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)				
600107	6 - 41 / 13	3982	1F	1	**440,68**
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32, 36 x 41)				
611018	6 - 27 / 10	1250	1F	1	**227,61**
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27)				
605531	1/4" - 1.1/4" / 12	2005	1F	1	**328,69**
	110/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8", 1.1/16" x 1.1/4")				



110/1CS

Set de chei fixe in cutie de carton



UNIOR

602844	6 - 22 / 8	800	1G	1	**156,00**
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/1CT

Set de chei fixe in husa



UNIOR

615465	6 - 22 / 8	788	1E	1	**225,62**
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), CT110 (430 x 275)				

CT110

Husa goala

- *Dimensiune 430 x 275, pentru articolul 110 si 125*
- *fixarea velcro este folosita pentru inchiderea si deschiderea usoara*
- *cureaua de inchidere nu este necesara*



UNIOR

	A	B				
615480	430	275	117	1E	1	**82,11**

110/1PB

Set de chei fixe in husa de plastic



600108	6 - 17 / 6	378	1E	1	102,35

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17)

110/1PB

Set de chei fixe in husa de plastic



600109	6 - 22 / 8	747	1E	1	156,00

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)

110/1PH

Set de chei fixe in suport de plastic

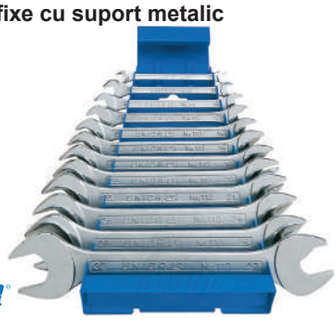


610835	6 - 22 / 8	885	1F	1	163.74

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)

110/1MS

Set de chei fixe cu suport metalic

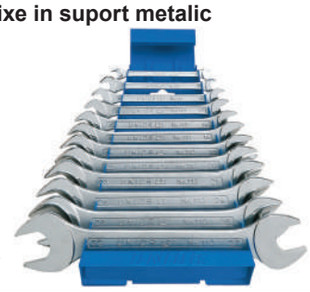


605528	6 - 32 / 12	2740	1F	1	369,02

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), 977/1 (6 - 32/12)

110/1MS

Set de chei fixe in suport metalic



605532	1/4" - 1.1/4" / 12	2642	1F	1	384,59

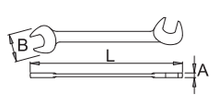
110/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8, 1.1/16" x 1.1/4"), 977/1 (6 - 32/12)

114/2

Chei fixe duble mici pentru ELECTRICIENI

- *material: otel carbon de scule*
- *capul cheii este tratat in intregime*
- *acoperire cromare conform EN12540*





		L	B	A				
618623	3.2	75	10	2	2	4A	10	12,74
618624	3.5	75	10	2	2	4A	10	12,74
618625	4	75	10.5	2	2	4A	10	12,74
618626	4.5	75	10.5	2	2	4A	10	12,74
618627	5	85	12	2	4	4A	10	14,01
618628	5.5	85	12.2	2	4	4A	10	14,01
618629	6	85	12.5	2	4	4A	10	14,01
618630	7	95	14.5	2	6	4A	10	15,18
618631	8	95	16.5	2	7	4A	10	15,18
618632	9	110	19	3	17	4A	10	17,32
618633	10	110	21	3	18	4A	10	17,32
618634	11	110	23.5	3	20	4A	10	17,85
618635	12	125	24	3	30	4A	10	21,65
618636	13	125	27.5	3	33	4A	10	21,65
618637	14	125	28	3	33	4A	10	21,65

114/2PB

Set chei fixe mici pentru electricieni



619287	3.2 - 14 / 15	292	1E	1	**240,74**

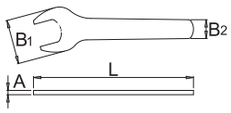
114/2 (3.2, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14)

135/2

Cheie fixa simpla pentru gaz

- *confectionata din tabla*
- *acoperire cromare conform EN12540*





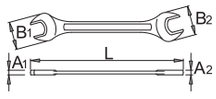
		L	B1	B2	A				
600262	27	187	52	22	4	149	4A	10	**18,92**

112/2

Cheie fixa dubla

- *material:otel carbon de scule*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *executie in concordanta cu standardul DIN 895*





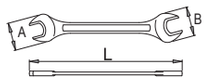
		L	B1	B2	A1	A2				
602082	8 x 10	115	18	22	4.2	4.2	20	4A	10	**7,44**
613222	10 x 11	122	23	24.5	5	5	35	4A	10	**8,17**
605045	10 x 12	128	22	28	5	5	37	4A	10	**8,17**
603611	10 x 13	137	26	28.5	5.2	5.2	43	4A	10	**8,17**
602083	11 x 13	132	26	28.5	5	5.4	41	4A	10	**8,17**
602085	13 x 15	152	28	32	6	6	63	4A	10	**9,73**
603134	13 x 17	158	30	35	6.5	6.5	65	4A	10	**9,92**
602086	14 x 17	158	30	35	6.5	6.5	62	4A	10	**10,85**
602087	17 x 19	170	35	40	7	7	94	4A	10	**13,33**
602088	19 x 22	197	42	48	8	8	138	4A	10	**16,15**

895B

Chei fixe duble drepte brunate

- *material: otel carbon*
- *acoperire: brunare*
- *DIN 895*





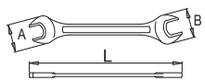
	A x B	L	g	Amb	
6506070	6x7	93	10	20	**7,07**
6508090	8x9	105	21	20	**7,70**
6514150	14x15	149	61	10	**13,04**
6516170	16x17	162	77	10	**14,22**
6518190	18x19	169	96	10	**17,13**
6519220	19x22	199	144	10	**23,58**
6519240	19x24	205	166	10	**29,54**
6521230	21x23	210	156	10	**34,26**
6524270	24x27	237	269	10	**40,77**
6525280	25x28	234	233	10	**51,52**
6527320	27x32	256	382	10	**57,35**
6530340	30x34	273	420	10	**78,64**
6532360	32x36	303	480	5	**89,18**
6550550	50x55	480	1895	1	**275,99**
6555600	55x60	479	2100	1	**317,32**

7112

Chei fixe duble drepte brunate

- *material: otel carbon*
- *acoperire: brunare*
- *DIN 895*

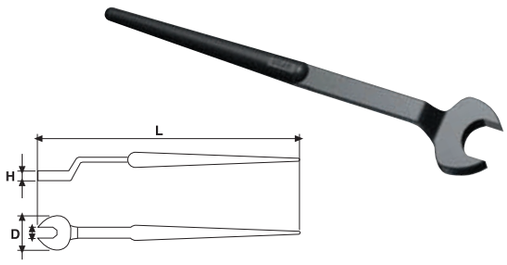




	A x B	L	g	
71120607	6 x 7	93	10	**2,85**
71120809	8 x 9	105	21	**3,24**
71121011	10 x 11	119	33	**3,81**
71121013	10 x 13	115	40	**3,81**
71121213	12 x 13	129	43	**4,37**
71121317	13 x 17	155	71	**5,81**
71121415	14 x 15	149	61	**5,52**
71121417	14 x 17	161	77	**6,01**
71121617	16 x 17	162	77	**6,47**
71121719	17 x 19	170	95	**8,56**
71121819	18 x 19	169	96	**8,56**
71121922	19 x 22	195	135	**8,75**
71122022	20 x 22	192	136	**8,94**
71122123	21 x 23	210	156	**10,65**
71122224	22 x 24	215	183	**12,56**
71122426	24 x 26	237	269	**14,84**
71122427	24 x 27	237	299	**15,97**
71122528	25 x 28	234	233	**17,86**
71122732	27 x 32	256	382	**21,87**
71123032	30 x 32	270	440	**23,21**
71123236	32 x 36	303	480	**31,98**
71123436	34 x 36	303	526	**42,63**
71123438	34 x 38	304	566	**42,63**
71123641	36 x 41	345	760	**44,71**
71124146	41 x 46	372	930	**94,24**
71124650	46 x 50	414	1020	**114,59**
71125055	50 x 55	479	2100	**171,34**
71125560	55 x 60	479	2100	**220,60**
71126570	65 x 70	580	2900	**220,60**
71127580	75 x 80	580	2900	**613,18**

STRM

Chei fixe simple cotite



OZAT 2000 LTD.

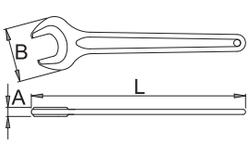
	mm	L	A	B	g	
STRM13	13	360	60	14	650	**225,34**
STRM14	14	360	60	14	650	**225,34**
STRM15	15	360	60	14	650	**225,34**
STRM16	16	360	60	14	650	**225,34**
STRM17	17	360	60	14	650	**225,34**
STRM18	18	360	60	14	650	**231,27**
STRM19	19	360	60	14	650	**231,27**
STRM21	21	360	60	14	650	**231,27**
STRM22	22	360	60	14	650	**231,27**
STRM23	23	360	60	14	650	**231,27**
STRM24	24	360	60	14	650	**231,27**
STRM25	25	360	60	14	650	**231,27**
STRM27	27	430	80	18	1270	**266,80**
STRM28	28	430	80	18	1270	**266,80**
STRM30	30	430	80	18	1270	**334,76**
STRM31	31	430	80	18	1270	**334,76**
STRM32	32	430	80	18	1270	**369,33**
STRM35	35	430	80	18	1270	**369,33**
STRM36	36	430	80	18	1270	**369,33**
STRM38	38	550	105	24	2970	**446,76**
STRM40	40	550	105	24	2970	**446,76**
STRM41	41	550	105	24	2970	**522,05**
STRM42	42	550	105	24	2970	**522,05**
STRM44	44	550	105	24	2970	**522,05**
STRM45	45	550	105	24	2970	**547,52**
STRM46	46	550	105	24	2970	**547,52**
STRM48	48	620	130	25	4100	**601,56**
STRM49	49	620	130	25	4100	**601,56**
STRM50	50	620	130	25	4100	**601,56**
STRM52	52	620	130	25	4100	**622,80**
STRM55	55	620	130	25	4100	**622,80**
STRM56	56	620	130	25	4100	**622,80**
STRM57	57	620	130	25	4100	**692,54**
STRM60	60	620	130	25	4100	**692,54**

7117

Chei fixe simple drepte brunate

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire prin brunare conform cu standardul DIN 12476*
- *executie in conformitate cu standardul DIN 894*





KRONUS Professional Quality

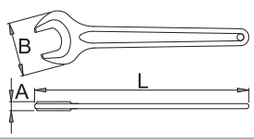
	mm	L	A	B	g	
715273	36	295	12.5	74	438	**26,77**
715275	41	335	13.5	84	537	**33,84**
715276	46	365	14.5	94	747	**49,26**
715277	50	400	15.5	102	890	**72,82**
715278	55	475	16	110	1170	**94,24**
715279	60	475	17	120	1365	**156,34**
715280	65	550	18	130	1665	**171,34**
715281	70	550	19	140	1995	**261,29**
715282	75	620	20	150	2995	**338,39**

117/4

Cheie fixa simpla

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire prin brunare conform cu standardul DIN 12476*
- *executie in conformitate cu standardul DIN 894*
- *Aplicatii: in industrie pentru lucrari la utilaje, motoare si alte echipamente*
- *Dimensiunile mari sunt utile in industria navala, industria petroliera si alte sectoare grele unde se utilizeaza echipamente mari.*
- *Cheia este special destinata pentru lucrari ce necesita momente de torsiune mari si parghii mai lungi pentru actionare*





UNIOR

		L	A	B				
615262	10	104	4.5	22	21	4A	10	**7,83**
620207	12	123	5	26	29	4A	10	**7,83**
615263	13	132	5.4	28	35	4A	10	**9,29**
615264	17	157	5.9	36	68	4A	10	**9,73**
615265	19	170	6.9	40	78	4A	10	**11,97**
615267	22	195	7.9	46	106	4A	10	**14,16**
615268	24	218	8.7	50	147	4A	5	**18,97**
615269	27	240	9.7	56	192	4A	5	**22,33**
615270	30	265	10.7	62	297	4A	5	**26,85**
615271	32	275	11.7	66	297	4A	5	**29,87**
615272	34	275	11.7	70	399	1C	1	**37,46**
615273	36	295	12.5	74	438	1C	1	**41,06**
615274	38	295	12.5	74	390	1C	1	**45,92**
615275	41	335	13.5	84	537	1C	1	**49,57**
615276	46	365	14.5	94	747	1C	1	**60,51**
615277	50	400	15.5	102	890	1C	1	**73,94**
615278	55	475	16	110	1170	1C	1	**151,82**
615279	60	475	17	120	1365	1C	1	**186,21**
615280	65	550	18	130	1665	1C	1	**260,01**
615281	70	550	19	140	1995	1C	1	**302, 77**

894B

Chei fixe simple drepte brunate

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire prin brunare conform cu standardul DIN 12476*
- *executie in conformitate cu standardul DIN 894*

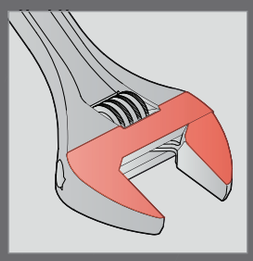


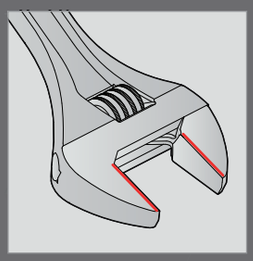
WGB Das Werkzeug

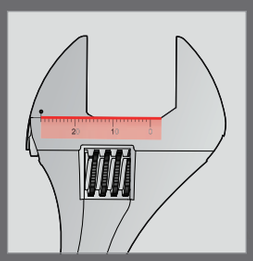
	mm	L		g	
6410507	105	900		6200	**2697,91**
6411007	110	910		6350	**3044,14**
6411507	115	950		6400	**3369,16**
6412007	120	1005		8200	**7259,44**
6412507	125	1005		7650	**8754,92**
6413007	130	1005		7400	**9024,95**
6413507	135	1005		7800	**10109,21**

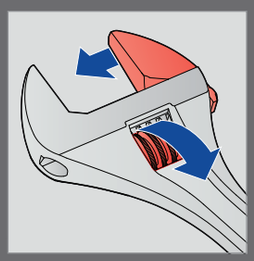
CARACTERISTICI

250/1, 250/1ADP, 251/4







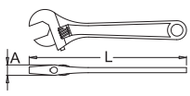


250/1

Cheie reglabila

- *material:crom vanadium*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *cu scala*
- *in conformitate cu standardul ISO 6787*





UNIOR

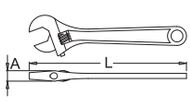
		L	A					
611917	100	110	9.8	17	61	4A	10	**81,09**
611918	150	155.5	11.7	23	133	4A	10	**87,03**
601016	200	205	14.4	28	243	4A	10	**98,80**
601017	250	254	16.9	32	439	4A	10	**122,44**
601018	300	303.5	19.1	38	702	1C	10	**165,54**
601019	380	375	23.8	50	1315	1C	5	**296,30**
605113	450	458.5	26.3	60	1730	1C	1	**472,20**
615148	600	608	29.7	70	3240	1C	1	**1008,26**

251/4

Cheie reglabila

- *material:crom vanadium*
- *forjata, calire si revenire totala*
- *acoperire prin brunare*
- *rotire stanga*
- *cu scala*
- *in conformitate cu standardul ISO 6787*





UNIOR

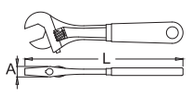
		L	A					
612870	150	155.7	11.7	20	137	4A	10	**84,25**
612871	200	204.3	14.4	25	257	4A	10	**95,54**
612872	250	254	16.9	30	447	4A	10	**118,40**
612873	300	303.5	19.1	36	700	1C	10	**160,04**

250/1ADP

Cheie reglabila

- *material:crom vanadium*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *cu scala*
- *manere din doua straturi de plastic*
- *in conformitate cu standardul ISO 6787*





UNIOR

		L	A					
617246	200	205	14.8	28	280	4A	10	**114,70**
617247	250	254	17	32	490	4A	10	**133,63**
617248	300	304	20	38	785	1C	10	**174,05**
617249	380	381	25.5	50	1395	1C	5	**317,26**

250.1/1

Parti de schimb pentru cheile reglabile 250, 250 A



UNIOR

611978	100	16	1E	1	**15,86**
611979	150	30	1E	1	**16,93**
602070	200	55	1E	1	**18,78**
602071	250	95	1E	1	**23,20**
602072	300	123	1E	1	**27,97**
602073	380	224	1E	1	**34,78**
602069	450	320	1E	1	**58,42**
615149	600	511	1E	1	**104,59**

IREGA 99F

Cheie reglabila fosfatata cu falci la 15º

• material: otel crom vanadiu
• scala de masurare metric pe falci pentru presetare si masurare piulite, suruburi, tevi, etc.
• fabricate in conformitate cu cele mai stricte standarde internationale UNE 16-532, ISO 6787, ASME B107.8M, BS ISO 6787 si DIN 3117



	Dimensiune	Deschidere	Ambalare	
570230106005103	160 mm (6")	19,2 mm (3/4")	1	**93,03**
570230108005103	206 mm (8")	24,05 mm (15/16")	1	**115,46**
570230110005103	257 mm (10")	29 mm (1 1/8")	1	**138,68**
570230112005103	310 mm (12")	34 mm (1 3/8")	1	**185,91**

IREGA 77/CE

Cheie reglabila cromata cu falci la 15º

• material: otel crom vanadiu
• scala de masurare metric pe falci pentru presetare si masurare piulite, suruburi, tevi, etc.
• fabricate in conformitate cu cele mai stricte standarde internationale UNE 16-532, ISO 6787, ASME B107.8M, BS ISO 6787 si DIN 3117

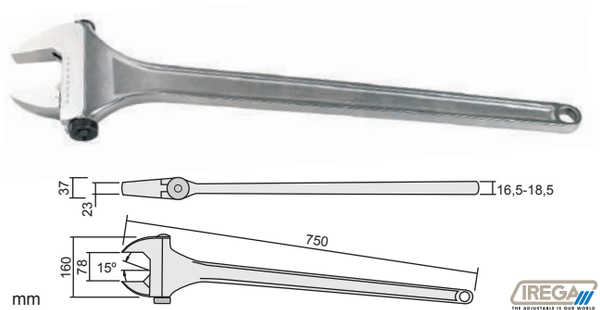


	Dimensiune	Deschidere	Ambalare	
570000015009003	385 mm (15")	43,12 mm (1 11/16")	1	**233,77**
570000018009003	461 mm (18")	53 mm (2 1/8")	1	**364,39**
570000024009003	612 mm (24")	62 mm (2 7/16")	1	**974,56**

IREGA 771-30"

Cheie reglabila cromata lunga cu falci la 15º

• cheia reglabila 771-30" este ideala pentru cele mai grele si cele mai solicitante locuri de munca, in industrie, petrol, minerit, constructii metalice etc.
• fabricate in conformitate cu cele mai stricte standarde internationale
• depaseste UNE 16-532
• forjate dintr-o singura bucata
• material: otel crom vanadiu
• rezistenta mare, uzura minima, durabilitate imbatabila
• scala de masurare metric pe falci pentru masurare piulite, suruburi, tevi, etc.

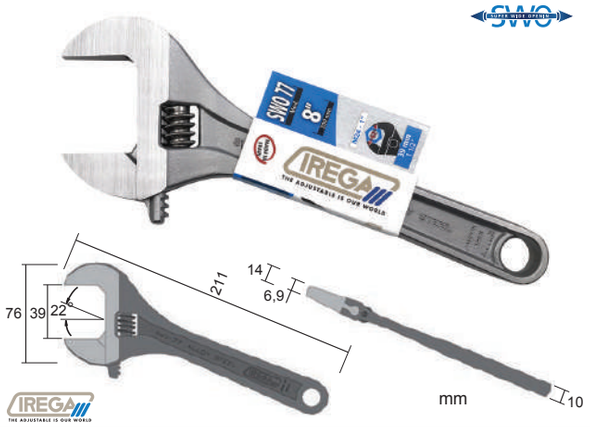


	Dimensiune	Deschidere	Ambalare	
8I003 30	750 mm (30")	78 mm (3")	1	**2270,23**

IREGA SWO 77 CE

Cheie reglabila fosfatata cu deschidere marita

• greutate redusa
• compacta: "Stubby"
• robusta
• versatila
• instrument universal de inalta performanta ideal pentru: instalatii, centrale termice, aer conditionat, sistem de refrigerare, lucrari de intretinere, etc.



	Dimensiune	Deschidere	Ambalare	
570703008005003	211 mm	39 mm	1	**134,89**

IREGA 99XS

Cheie reglabila fosfatata Extra Slim (2,5 mm)

• material: otel crom vanadiu
• scala de masurare metric pe falci pentru presetare si masurare piulite, suruburi, tevi, etc.
• accesibilitate mai mare datorita designului falcilor Slim Xtra: pana la 50% mai subtire decat cheile standard, cu o deschidere similara
• cea mai mare accesibilitate garantata datorita grosimii reduse, pe toata lungimea falcilor Xtra Slim
• conform ISO 6787 si ASME B107.8



XTRA SLIM XTRA Capacity





	Dimensiune	Deschidere	Ambalare	
571330104005106	115 mm (4")	13 mm (1/2")	1	**108,67**
571530106005106	161 mm (6") - 99W	24 mm (15/16")	1	**119,25**

IREGA 92WR

Cheie reglabila cromata cu falca reversibila

- *falca reversibila pentru prelucrarea tevilor*
- *capacitate mare de prindere*
- *scara dubla: milimetri de pe partea din fata, inch pe partea din spate*
- *cheie reglabila profesionala multifunctionala, se poate utiliza pe orice obiect cu forma cilindrica*
- *material: otel crom vanadiu*
- *usoara si compacta*
- *in conformitate cu cele mai stricte standarde internationale UNE 16532: 2002; ISO 6787: 2001; BS ISO 6787: 2001; ASME B107.100-2010 (B107.8); DIN 3117*







	Dimensiune	Deschidere	Ambalare	
571101006005306	161 mm (6")	27 mm (1 1/16")	1	**138,68**
571101008005306	207 mm (8")	34 mm (1 5/16)	1	**172,01**
571101010005306	259 mm (10")	40 mm (1 9/16")	1	**206,44**
571101012005303	311 mm (12")	45 mm (1 3/4")	1	**276,89**

IREGA SWO 99

Cheie reglabila fosfatata cu deschidere marita cu manson ErgoTop

- *material: otel crom vanadiu*
- *maner ergonomic si interschimbabil ErgoTop*
- *SWO 99 6" deschidere marita 34 mm (1 3/8") cu 78% mai mare decat cheile reglabile standard (6"), dimensiuni similare; greutate redusa - 205 grame cu 68% mai usoara decat chei reglabile standard (12") cu deschidere similara*
- *SWO 99 8" deschidere marita 39 mm (1 1/2") cu 62% mai mare decat cheile reglabile standard (8"), dimensiuni similare; greutate redusa - 345 grame cu 50% mai usoara decat chei reglabile standard (12 "), care are deschidere mai mica*



	Dimensiune	Deschidere	Ambalare	
570433106008105	176 mm (6")	34 mm (1 3/8")	1	**148,95**
570433108008105	216 mm (8")	39 mm (1 1/2")	1	**160,79**

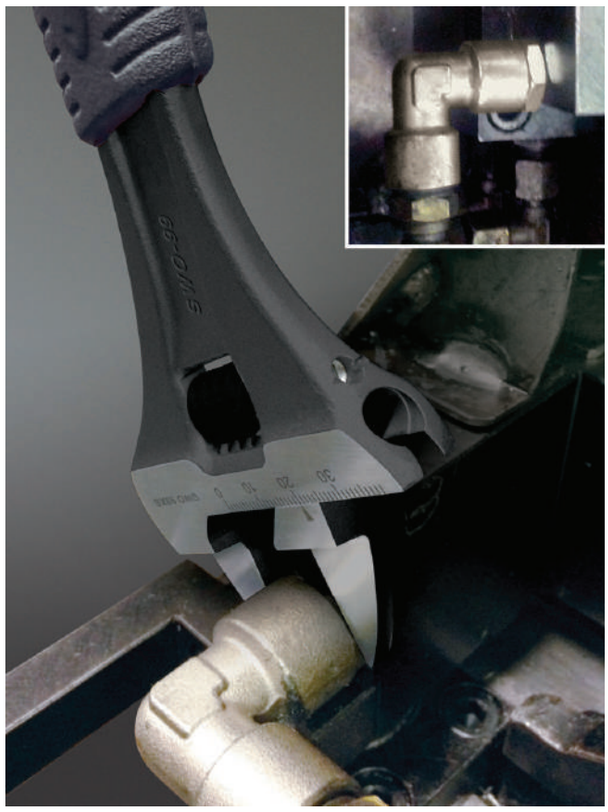
IREGA SWO 99XS

Cheie reglabila fosfatata Extra Slim (4,5 mm) cu manson ErgoTop

- *accesibilitate mai mare datorita designului falcilor Slim Xtra: pana la 50% mai subtire decat cheile standard, cu o deschidere similara*
- *material: otel crom vanadiu*
- *maner ergonomic si interschimbabil ErgoTop*
- *SWO 99XS 6" - deschidere cu 78% mai mare decat chei reglabile standard, dimensiuni similare si greutate redusa - 200 grame - cu 68% mai usoara decat chei reglabile standard, cu deschidere similara*
- *SWO 99XS 8" - deschidere mare de 39 mm (1 1/2") cu 62% mai mare decat chei reglabile standard si greutate redusa, 335 de grame - cu 50% mai usoare decat cheile reglabile standard (12"), care are deschidere mai mica*



	Dimensiune	Deschidere	Ambalare	
571033106005105	176 mm (6")	34 mm (1 3/8")	1	**168,22**
571033108005105	216 mm (8")	39 mm (1 1/2")	1	**180,22**



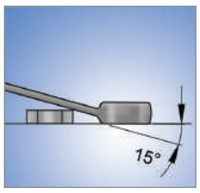
120/1

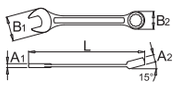
Chei combinate, varianta lunga

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *partea inelara cu profil de protectie*
- *in concordanta cu standardul ISO 7738 (numai dimensiunile in mm)*



UNIOR





		L	B2	B1	A2	A1				
616745	3.2	105	8	14	4	3.2	11	4A	10	**22,13**
616746	4	105	8	14	4	3.2	11	4A	10	**22,13**
616747	4.5	105	8	14	4	3.2	7	4A	10	**22,13**
616748	5	119	10.4	14.5	5	3.5	7	4A	10	**22,13**
616749	5.5	119	10.4	14.5	5	3.5	15	4A	10	**22,13**
600357	6	119	10.4	14.5	5	3.5	14	4A	10	**18,29**
600358	7	129	11.5	16.5	5.8	3.9	15	4A	10	**18,39**
600359	8	141	13.2	18.5	6.9	3.9	23	4A	10	**18,87**
600360	9	152	14.3	21	7.3	4	27	4A	10	**21,40**
600361	10	163	15.9	23	7.5	4.2	37	4A	10	**23,06**
600362	11	176	17.8	24.5	8	4.5	45	4A	10	**24,23**
600363	12	186	19.4	26.5	8.5	4.7	55	4A	10	**25,68**
600364	13	199	20.4	29.5	8.5	5.2	68	4A	10	**27,44**
600365	14	210	22	31.5	9	5.2	82	4A	10	**28,12**
600366	15	222	23.2	33.5	9.5	5.7	96	4A	10	**30,21**
600367	16	234	24.8	36	10.5	6.2	121	4A	10	**30,69**
600368	17	245	26.1	38	10.5	6.7	144	4A	10	**32,84**
600369	18	257	27.7	40	11	7.2	165	4A	10	**34,93**
600370	19	268	29.3	42	12	7.2	186	4A	10	**37,31**
600371	20	280	31	44	12.5	7.7	225	4A	10	**39,79**
600372	21	291	32.6	45.5	13	8.2	251	4A	10	**42,47**
600373	22	303	34.1	46.5	13	8.2	266	4A	10	**45,87**
600374	23	314	35.7	50.5	13	8.2	300	4A	5	**51,90**
600375	24	330	37.3	52.5	14	8.5	382	4A	5	**53,61**
600376	25	337	39	54.5	14.5	8.5	377	4A	5	**59,69**
600377	26	349	40.1	56	15	8.5	422	4A	5	**61,58**
600378	27	360	41.6	57.5	15	9	453	4A	5	**67,91**
600379	28	373	43.2	59.5	15.5	9	532	4A	5	**73,60**
600380	29	383	44.9	61.5	16	9.5	567	4A	5	**79,34**
600381	30	395	46.5	63.5	16	10	632	4A	5	**84,01**
600382	32	416	49	68	16.5	10.5	719	4A	5	**90,63**
607019	35	500	53.5	78.8	20	13.6	1405	1C	1	**144,82**
602601	36	500	53.5	78.8	20	13.6	1415	1C	1	**153,18**
605838	38	515	58	82.8	20.5	14.1	1310	1C	1	**165,54**
602602	41	540	62	86.8	21	14.6	2025	1C	1	**195,36**
618514	46	560	69	94	23	16	2445	1C	1	**327,19**
618517	50	580	75	103	24	17	1955	1C	1	**377,92**
616752	55	600	83	112	26	18	3395	1C	1	**461,84**
616753	60	620	91	120	28	20	4120	1C	1	**517,73**
616754	65	640	100	130	30	21	5205	1C	1	**990,51**
616755	70	660	108	140	32	23	5995	1C	1	**1093,69**
616756	75	680	116	150	34	24	6995	1C	1	**1242,05**
616757	80	700	124	160	36	26	8595	1C	1	**1451,71**

		L	B2	B1	A2	A1				
618491	1/4"	119	10.4	14.5	5	3.5	14	4A	10	**18,29**
618492	5/16"	142	13.2	18.5	6.9	3.9	23	4A	10	**18,87**
618493	3/8"	153	14.3	21	7.3	4	27	4A	10	**23,06**
618494	7/16"	176	17.8	24.5	8	4.5	45	4A	10	**24,23**
618495	1/2"	199	20.4	29.5	8.5	5.2	68	4A	10	**27,44**
618496	9/16"	211	22	31.5	9	5.2	82	4A	10	**28,12**
618497	5/8"	234	24.8	36	10.5	6.2	121	4A	10	**30,69**
618498	11/16"	245	26.1	38	10.5	6.7	144	4A	10	**34,93**
618499	3/4"	268	29.3	42	12	7.2	186	4A	10	**37,31**
618500	13/16"	291	32.6	45.5	13	8.2	251	4A	10	**42,47**
618501	7/8"	303	34.1	46.5	13	8.2	266	4A	10	**45,87**
618502	15/16"	330	37.3	52.5	14	8.5	382	4A	5	**53,61**
618503	1"	337	39	54.5	14.5	8.5	377	4A	5	**59,69**
618504	1.1/16"	360	41.6	57.5	15	9	453	4A	5	**67,91**
618505	1.1/8"	372	43.2	59.5	15.5	9	532	4A	5	**73,60**
618506	1.1/4"	417	49	68	16.5	10.5	719	4A	5	**84,01**
618507	1.5/16"	417	49	68	16.5	10.5	732	1C	5	**90,63**
618508	1.3/8"	500	53.5	78.8	20	13.6	1425	1C	1	**192,88**
618509	1.7/16"	500	53.5	78.8	20	13.6	1395	1C	1	**192,88**
618510	1.1/2"	500	53.5	78.8	20	13.6	1335	1C	1	**192,88**
618511	1.5/8"	540	62	86.8	21	14.6	1975	1C	1	**249,84**
618512	1.11/16"	540	62	86.8	21	14.6	1995	1C	1	**249,84**
618513	1.3/4"	560	69	94	23	16	2435	1C	1	**339,79**
618515	1.13/16"	560	69	94	23	16	2495	1C	1	**339,79**
618516	1.7/8"	560	69	94	23	16	2445	1C	1	**339,79**
618518	2"	580	75	103	24	17	2985	1C	1	**382,30**

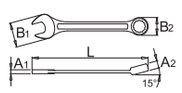
126E/2

Chei combinate, varianta scurta

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *partea inelara cu profil de protectie*
- *forjata, calire si revenire totalain concordanta cu standardul ISO 7738*



UNIOR EUROTOOLS



	mm	L	B2	B1	A2	A1	
608907	6	100	10.4	14.5	5	3.5	**12,51**
608908	7	109	11.5	16.5	5.8	3.9	**12,92**
608909	8	119	13.2	18.5	6.9	3.9	**13,17**
608910	9	123	14.3	21	7.3	4	**14,51**
608911	10	128	15.9	23	7.5	4.2	**15,84**
609932	11	135	17.8	24.5	8	4.5	**16,81**
608912	12	139	19.4	26.5	8.5	4.7	**17,73**
608913	13	150	20.4	29.5	8.5	5.2	**18,45**
608914	14	160	22	31.5	9	5.2	**18,91**
608915	15	170	23.2	33.5	9.5	5.7	**20,30**
609933	16	180	24.8	36	10.5	6.2	**21,12**
608916	17	190	26.1	38	10.5	6.7	**22,55**
609934	18	200	27.7	40	11	7.2	**25,78**
608917	19	210	29.3	42	12	7.2	**27,42**
609935	20	220	31	44	12.5	7.7	**30,39**
609936	21	230	32.6	45.5	13	8.2	**32,34**
608918	22	247	34.1	46.5	13	8.2	**33,67**
609816	23	250	35.7	50.5	13	8.2	**38,80**
609937	24	266	37.3	52.5	14	8.5	**40,95**



	mm	L	B2	B1	A2	A1	
609821	25	270	39	54.5	14.5	8.5	**45,57**
609822	26	275	40.1	56	15	8.5	**47,26**
609938	27	292	41.6	57.5	15	9	**52,69**
609823	28	296	43.2	59.5	15.5	9	**57,56**
609824	29	300	44.9	61.5	16	9.5	**62,43**
609939	30	323	46.5	63.5	16	10	**65,76**
609940	32	343	49	68	16.5	10.5	**71,35**

120/1CB

Set de chei combinate lungi in cutie de carton



UNIOR

600383	6 - 22 / 17	1930	1F	1	**499,58**
	120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)				
600384	6 - 32 / 26	6200	1F	1	**1121,85**
	120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32)				
611019	8 - 22 / 10	1105	1F	1	**293,62**
	120/1 (8, 10, 11, 12, 13, 14, 15, 17, 19, 22)				
611020	10 - 30 / 12	2611	1F	1	**480,27**
	120/1 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30)				
619398	1/4" - 1.1/4" / 16	3720	1F	1	**670,04**
	120/1 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4")				



120/1CS

Set de chei combinate lungi in cutie de carton



UNIOR

603709	8 - 19 / 8	770	1C	1	**214,72**
	120/1 (8, 9, 10, 12, 13, 14, 17, 19)				

120/1CT

Set de chei combinate lungi in husa



UNIOR

615475	8 - 22 / 8	1050	1E	1	**323,98**
	120/1 (8, 10, 11, 13, 15, 17, 19, 22), **CT129** (470 x 330)				

120/1MS

Set de chei combinate lungi cu suport metalic



UNIOR

605537	6 - 22 / 17	2765	1F	1	**555,43**
	120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 977/2 (6 - 22/17)				

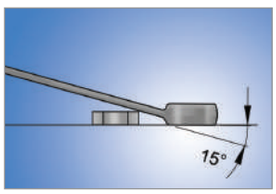
125/1

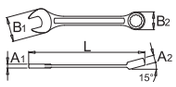
Chei combinate, varianta scurta

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *partea inelara cu profil de protectie*
- *in concordanta cu standardul ISO 7738 (numai dimensiunile in mm)*
- *Fabricat in conformitate cu norma ISO 3318/3313A (doar dimensiuni in sistem metric)*



UNIOR





		L	B2	B1	A2	A1				
618651	5	84	5.8	12	3	3	9	4A	10	**24,91**
618652	5.5	84	5.8	12	3	3	9	4A	10	**24,91**
600414	6	100	10.4	14.5	5	3.5	11	4A	10	**16,88**
600415	7	109	11.5	16.5	5.8	3.9	15	4A	10	**17,07**
600416	8	119	13.2	18.5	6.9	3.9	20	4A	10	**17,76**
600417	9	123	14.3	21	7.3	4	25	4A	10	**19,41**
600418	10	128	15.9	23	7.5	4.2	29	4A	10	**21,40**
600419	11	135	17.8	24.5	8	4.5	35	4A	10	**22,52**
600420	12	139	19.4	26.5	8.5	4.7	45	4A	10	**23,64**
600421	13	150	20.4	29.5	8.5	5.2	54	4A	10	**24,71**
600422	14	160	22	31.5	9	5.2	63	4A	10	**25,68**
600423	15	170	23.2	33.5	9.5	5.7	78	4A	10	**27,44**
600424	16	180	24.8	36	10.5	6.2	95	4A	10	**28,31**
600425	17	190	26.1	38	10.5	6.7	121	4A	10	**30,21**
600426	18	200	27.7	40	11	7.2	135	4A	10	**32,35**
600427	19	210	29.3	42	12	7.2	157	4A	10	**34,34**
600428	20	220	31	44	12.5	7.7	186	4A	10	**36,48**
600429	21	230	32.6	45.5	13	8.2	198	4A	10	**39,16**
600430	22	247	34.1	46.5	13	8.2	230	4A	10	**42,22**
602089	23	250	35.7	50.5	13	8.2	254	4A	5	**47,57**
602090	24	266	37.3	52.5	14	8.5	300	4A	5	**49,08**
602091	25	270	39	54.5	14.5	8.5	330	4A	5	**54,34**
602092	26	275	40.1	56	15	8.5	342	4A	5	**56,53**
602093	27	292	41.6	57.5	15	9	365	4A	5	**62,61**
602094	28	296	43.2	59.5	15.5	9	432	4A	5	**67,47**
602095	29	300	44.9	61.5	16	9.5	455	4A	5	**73,11**
602096	30	323	46.5	63.5	16	10	522	4A	5	**77,10**
602097	32	343	49	68	16.5	10.5	602	4A	5	**83,57**
603332	36	400	54.5	79.5	20	13.5	1115	1C	1	**136,74**
618566	41	420	62	86.8	21	14.6	1575	1C	1	**226,83**
618570	46	440	69	94	23	16	1985	1C	1	**281,51**

125/1CB

Set de chei combinate scurte in cutie de carton



UNIOR

600431	6 - 22 / 17	1590	1F	1	**459,50**

125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)

125/1CB

Set de chei combinate scurte in cutie de carton



UNIOR

602098	6 - 32 / 26	5240	1F	1	**1030,98**

125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32)

125/1CB

Set de chei combinate scurte in cutie de carton



UNIOR

605542	1/4" - 1.1/4" / 15	2930	1F	1	**609,23**

125/1 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4")

125/1CB

Set de chei combinate scurte in cutie de carton



UNIOR

611021	8 - 22 / 10	893	1F	1	**269,88**

125/1 (8, 10, 11, 12, 13, 14, 15, 17, 19, 22)

125/1CB

Set de chei combinate scurte in cutie de carton



UNIOR

611022	10 - 30 / 12	2100	1F	1	440,97

125/1 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30)

125/1CT

Set de chei combinate scurte in husa



UNIOR

615478	8 - 22 / 8	851	1E	1	290,22

125/1 (8, 10, 11, 13, 15, 17, 19, 22),CT110 (430 x 275)

125/1CS

Set de chei combinate scurte in cutie de carton



UNIOR

603711	8 - 19 / 8	650	1G	1	197,11

125/1 (8, 9, 10, 12, 13, 14, 17, 19)

125/1MS

Set de chei combinate scurte cu suport metalic



UNIOR

605539	6 - 22 / 17	2200	1F	1	515,39

125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)977/3

129/1

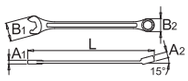
Chei combinate IBEX

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *partea inelara cu profil de protectie*

Avantaje:

- *Forta actioneaza pe flanc pentru a nu deforma interiorul unghiului*
- *3 suprafete conducatoare pentru o mai mare forta*
- *pozitionare 100% a cheii*
- *rotirea cheii fara scoaterea acesteia*





UNIOR

		L	B2	B1	A2	A1				
611762	8	140	13.2	18.5	6.9	3.9	22	4A	10	20,28
611763	10	160	15.9	23	7.5	4.2	37	4A	10	24,81
611764	11	174	17.8	24.5	8	4.5	43	4A	10	26,03
611765	12	183	19.4	26.5	8.5	4.7	54	4A	10	27,63
611766	13	196	20.4	29.5	8.5	5.2	63	4A	10	29,48
611767	14	206	22	31.5	9	5.2	75	4A	10	30,31
611768	15	217	23.2	33.5	9.5	5.7	93	4A	10	32,45
611769	16	227	24.8	36	10.5	6.2	114	4A	10	32,98
611770	17	238	26.1	38	10.5	6.7	131	4A	10	35,22
611930	18	250	28	40	11	7.2	155	4A	10	37,55
611771	19	261	29.3	42	12	7.2	173	4A	10	40,76
611772	22	296	34.1	46.5	13	8.2	258	4A	10	49,33
611773	24	321	37.3	52.5	14	8.5	321	4A	5	57,60

129/1CB

Set de chei combinate IBEX in cutie de carton



UNIOR

611776	8 - 24 / 12	1480	1F	1	406,92

129/1 (8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 22, 24)

129/1CS

Set de chei combinate IBEX in cutie de carton



UNIOR

611775	8 - 19 / 8	793	1G	1	240,94

129/1 (8, 10, 12, 13, 14, 15, 17, 19)

129/1CT

Set de chei combinate IBEX in cutie de carton



UNIOR

615474	8 - 22 / 8	989	1E	1	352,04

129/1 (8, 10, 11, 13, 15, 17, 19, 22),CT129 (470 x 330)

CT129

Husa goala

- *Dimensiune 470 x 330, pentru articolele 129,120,130,180,202*
- *fixarea velcro este pentru deschiderea si inchiderea usoara*
- *cureaua de inchidere nu este necesara*



UNIOR

	A	B				
615464	470	330	150	1E	1	97,44

178/2

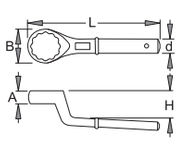
Cheie inelara simpla cotita

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*









UNIOR

		A	B	d	H	L				
620821	24	17	42	18.5	30	180	481	1F	5	101,52
620822	27	17	42	18.5	30	180	456	1F	5	112,08
620823	30	17	42	18.5	30	180	454	1F	5	120,35
620824	32	18	50	20.5	35	235	733	1F	5	133,68
620825	36	18	50	20.5	35	235	686	1F	5	165,25
620826	41	18	55	20.5	35	235	712	1F	1	178,96
620827	46	22	70	23.5	40	265	1208	1F	1	200,71
620828	50	22	70	23.5	40	265	1218	1F	1	235,93
620829	55	22	75	23.5	40	265	1156	1F	1	262,15
620830	60	30	94	29.5	50	345	2512	1F	1	366,10
620831	65	30	94	29.5	50	345	2582	1F	1	532,22
620832	70	35	107	29.5	55	365	2909	1F	1	620,61
620833	75	35	107	29.5	55	365	2850	1F	1	576,98
620834	80	40	125	29.5	59	385	3900	1F	1	697,72
620835	85	40	125	29.5	59	385	3741	1F	1	903,43
620836	90	45	140	29.5	63	410	3941	1F	1	1159,50
620837	95	45	140	29.5	63	410	4141	1F	1	1373,88

178.1/2

Maner de antrenare pentru 178/2

- *material:crom molibden*
- *acoperire cromare conform EN12540*





UNIOR

		D	d	L				
620840	24 - 30	25	19	460	744	1F	1	103,27
620841	32 - 41	27	21	610	1049	1F	1	145,11
620842	46 - 55	30	24	760	1509	1F	1	188,60
620843	60 - 95	37	30	860	2476	1F	1	254,61

250C

Cheie inelara simpla cotita

- *material: crom vanadiu*
- *executie in conformitate cu standardul DIN ISO 691*



WGB
Das Werkzeug

	mm	L	g	
2502403	24	179	390	198,12
2502703	27	190	466	237,16
2503003	30	200	514	271,21
2503203	32	235	710	316,97
2503603	36	244	786	380,42
2504103	41	265	916	452,06
2504603	46	280	1188	534,30
2505003	50	289	1390	595,25
2505503	55	300	1496	806,20
2506003	60	345	2250	1073,10
2506503	65	355	2600	1279,05
2507003	70	364	2800	1279,05
2507503	75	370	3800	1342,44
2508003	80	387	3850	1560,45

260C

Maner de antrenare pentru 250C

- *material: crom vanadiu*



WGB
Das Werkzeug

	mm	nr.	L	g	
2600013	22-30	1	460	602	157,69
2600023	32-41	2	610	920	196,66
2600033	46-55	3	760	2150	363,09
2600043	60-105	4	860	2850	476,53

280

Chei inelare simple drepte brunate

- *material: OLC*
- *forjata, calire si revenire totala*
- *executie in conformitate cu standardul DIN 3111*



WGB
Das Werkzeug

	mm	L	g	
2803607	36	292	479	**416,69**
2804607	46	362	919	**607,80**
2805007	50	388	1188	**731,93**
2805507	55	441	1628	**834,07**
2806007	60	473	1764	**1024,28**
2806507	65	508	2200	**1250,42**

179/2

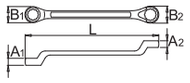
Chei inelare dublu cotite

- *material:crom vanadium*
- *forjare, calire si intarire totala*
- *acoperire cromare conform EN12540*
- *acoperire prin cromare*



UNIOR





		L	B1	B2	A1	A2				
605042	21 x 22	316	34	35	17	17	657	4A	5	**79,19**

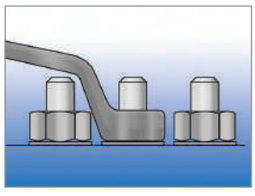
180/1

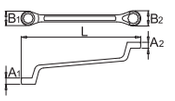
Chei inelare dublu cotite

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *partea inelara cu profil de protectie*
- *conform standardului ISO 10104 (numai pentru dimensiunile in mm)*



UNIOR





		L	B1	B2	A1	A2				
600511	6 x 7	178	10.3	11.8	5.5	6.1	48	4A	10	**22,72**
600512	8 x 9	190	13.3	14.8	6.7	7.3	60	4A	10	**23,20**
600513	8 x 10	166	13.3	16	6	8	50	4A	10	**25,15**

		L	B1	B2	A1	A2				
602663	9 x 11	182	14.1	16.7	7	9	65	4A	10	**28,12**
600514	10 x 11	205	16.3	17.8	7.9	8.4	81	4A	10	**25,68**
602997	10 x 12	210	16.3	19.3	7.9	9	86	4A	10	**28,46**
600516	12 x 13	220	19.3	20.9	9	9.5	108	4A	10	**27,34**
600517	12 x 14	205	17.7	20.3	9	10	95	4A	10	**29,28**
600518	13 x 15	235	20.8	23.3	9.5	10.5	144	4A	10	**30,55**
600519	13 x 17	258	20.8	26.3	9.5	11.5	172	4A	10	**31,47**
600520	14 x 15	235	22.3	23.3	10	10.5	140	4A	10	**29,97**
600521	14 x 17	257	20.5	24.3	10	12	173	4A	10	**33,32**
600522	16 x 17	258	25.3	26.3	11	11.5	187	4A	10	**31,67**
603123	16 x 18	259	23.6	26.5	11	12	205	4A	10	**36,78**
600523	17 x 19	270	26.3	29.2	11.4	12.4	233	4A	10	**40,33**
600524	18 x 19	270	28.2	29.2	11.9	12.4	230	4A	10	**36,92**
600525	19 x 22	293	29.2	34.2	12.4	13.7	308	4A	5	**44,51**
600526	20 x 22	295	31.2	34.2	12.8	13.7	320	4A	5	**43,25**
600527	21 x 23	305	32.2	36.2	13.3	13.3	336	4A	5	**47,72**
600528	22 x 24	315	34.2	37.2	13.7	13.7	368	4A	5	**53,85**
600529	24 x 26	325	37.2	40.2	14.6	14.6	459	4A	5	**55,41**
600530	24 x 27	325	37.2	41.2	14.6	14.6	453	4A	5	**59,44**
600531	25 x 28	335	39.2	43.2	15	15	522	4A	5	**60,51**
600532	27 x 29	335	41.2	44.2	15.8	15.8	589	4A	5	**76,32**
600533	27 x 30	360	39.2	43.4	15	15	647	4A	5	**80,07**
600534	27 x 32	360	41.2	48.2	15.8	15.8	672	4A	5	**73,45**
600535	30 x 32	370	45.2	48.2	17	17	680	4A	5	**72,09**
603124	30 x 36	395	43.5	48.8	15	18	845	1C	1	**110,72**
600536	32 x 36	410	48.2	54.2	17.8	19.4	915	1C	1	**110,72**
600537	36 x 41	450	49	57	19	21	945	1C	1	**134,94**
602664	41 x 46	472	57	62	21	23	1430	1C	1	**190,74**

290

Cheie inelara dublu cotita

- *material: crom-vanadiu*
- *conform DIN 838*
- *finisare: cromare; ISO 3318; ISO 1085; ISO 10104*



WGB
Das Werkzeug

	mm	L	g	
2955603	55 x 60	625	3850	**800,23**
2965703	65 x 70	695	5300	**1221,36**
2975803	75 x 80	775	7000	**5351,23**

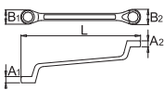


181E/2

Chei inelare dublu cotite

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *partea inelara cu profil de protectie*
- *conform standardului ISO 10104*





UNIOR EUROTOOLS

	mm	L	B2	B1	A2	A1	
611810	6 x 7	178	11	12.3	5.5	6.1	**18,71**
611811	8 x 9	190	14	15.5	6.7	7.3	**19,02**
611812	8 x 10	166	12.9	15.5	6	8	**21,63**
611813	9 x 11	205	15.5	18.5	7.3	8.4	**24,19**
611814	10 x 11	205	17	18.5	7.9	8.4	**21,73**
611815	12 x 13	220	20	21.5	9	9.5	**23,37**
611816	12 x 14	220	20	23	9	10	**25,22**
611817	13 x 14	235	21.5	24	9.5	10.5	**25,63**
611818	13 x 15	235	21.5	24	9.5	10.5	**26,24**
611819	14 x 15	235	23	24	10	10.5	**25,78**
611820	13 x 17	258	21.5	27	9.5	11.5	**28,09**
611821	14 x 17	257	19.8	23.6	10	12	**29,78**
611822	16 x 17	258	26	27	11	11.4	**27,83**
611823	16 x 18	259	22.9	25.4	11	12	**31,68**
611824	17 x 19	270	27	30	11.4	12.4	**37,47**
611825	18 x 19	270	29	30	11.9	12.4	**33,06**
611826	19 x 22	295	30	35	12.4	13.7	**42,59**
611827	20 x 22	295	32	35	12.8	13.7	**40,34**
611828	21 x 23	305	33	37	13.3	14.1	**44,44**
611829	22 x 24	315	35	38	13.7	14.6	**50,38**
611830	24 x 26	325	38	41	14.6	15.4	**52,13**
611831	24 x 27	325	38	42	14.6	15.8	**54,38**
611832	25 x 28	335	40	44	15	16.2	**57,92**
611833	27 x 32	360	42	49	15.8	17.8	**69,09**
611834	30 x 32	370	46	49	17	17.8	**70,73**

180/1CB

Set de chei inelare dublu cotite in cutie de carton



UNIOR

600541	6 - 22 / 8	1230		1F	1	**240,70**
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)					
603674	6 - 27 / 10	2020		1F	1	**347,86**
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27)					
600542	6 - 32 / 12	3275		1F	1	**477.79**
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)					

180/1CB

Set de chei inelare dublu cotite in cutie de carton



UNIOR

600543	6 - 41 / 13	4465		1F	1	**612,73**
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32, 36 x 41)					
605547	1/4" - 1.1/4" / 12	3100		1F	1	**496,96**
	180/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2"x9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8", 1.1/16" x 1.1/4")					

180/1CS

Set de chei inelare dublu cotite in cutie de carton

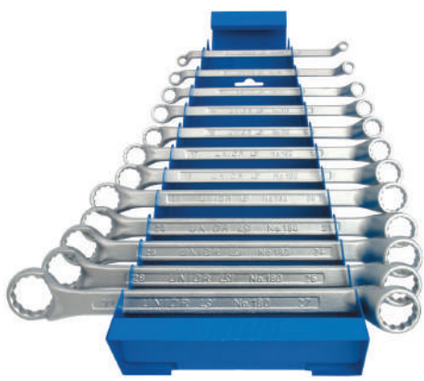


UNIOR

602845	6 - 22 / 8	1320		1G	1	**240,70**
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)					

180/1MS

Set de chei inelare dublu cotite cu suport metalic



UNIOR

605545	6 - 32 / 12	4171		1F	1	**539,67**
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), 977/4 (6 - 32/12)					

180/1CT

Set de chei inelare dublu cotite in husa



615473	6 - 22 / 8	1319	1E	1	329,72

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), CT129 (470 x 330)

180/1PB

Set de chei inelare dublu cotite in husa de plastic



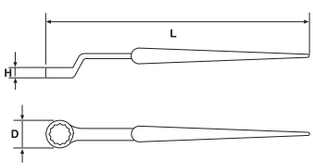
600544	6 - 22 / 8	1240	1E	1	240,70

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)

CTRM

Chei inelare simple cotite





	mm	L	D	H	g	
CTRM14	14	360		16	510	225,34
CTRM15	15	360		16	510	225,34
CTRM16	16	360		16	510	225,34
CTRM17	17	360		16	510	225,34
CTRM18	18	360		16	510	225,34
CTRM19	19	360		16	510	232,23
CTRM21	21	360		16	510	232,23
CTRM22	22	360		16	510	232,23
CTRM23	23	360		16	510	232,23
CTRM24	24	360		16	510	232,23
CTRM25	25	360		16	510	232,23
CTRM26	26	430		22	1040	232,23
CTRM27	27	430		22	1040	267,17
CTRM30	30	430		22	1040	334,76
CTRM31	31	430		22	1040	334,76
CTRM32	32	430		22	1040	369,63
CTRM35	35	550		28	2330	369,63
CTRM36	36	550		28	2330	447,80
CTRM38	38	550		28	2330	447,80
CTRM40	40	550		28	2330	447,80
CTRM41	41	550		28	2330	523,09
CTRM45	45	550		28	2330	603,26
CTRM46	46	550		28	2330	603,26
CTRM49	49	620		35	3750	603,26
CTRM50	50	620		35	3750	603,26
CTRM55	55	620		35	3750	603,26
CTRM57	57	620		35	3750	692,54
CTRM60	60	620		35	3750	692,54

182/2A

Cheie inelara dubla dreapta cu capete drepte

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *partea inelara cu profil de protectie*
- *in concordanta cu standardul DIN 837(numai pentru dimensiunile in mm)*





		L	B1	B2	A				
612004	6 x 7	97	10	11.3	4.6	11	4A	10	20,53
612005	8 x 9	112	12.7	14	5.6	19	4A	10	21,01
612006	10 x 11	132	15.6	16.5	6.6	29	4A	10	23,16
612007	12 x 13	147	18	19	7.6	44	4A	10	24,61
612008	14 x 15	162	20.5	21.5	7.6	59	4A	10	27,00
612009	16 x 17	172	23.2	24.2	8.6	90	4A	10	28,60
612010	18 x 19	186	25.9	27.4	9.6	112	4A	10	33,37
612011	20 x 22	206	28.9	31.8	11	161	4A	5	39,06
612013	24 x 26	258	34.8	37.3	11.5	289	4A	5	50,01
612015	27 x 29	298	38.8	41.8	13	378	4A	5	67,57
612016	30 x 32	318	42.7	45.2	13.5	467	4A	5	65,04



182/2ACB

Set de chei inelare duble drepte in cutie de carton



612567	6 - 22 / 8	576	1F	1	**217,35**

182/2A (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)

182/2ACB

Set de chei inelare duble drepte in cutie de carton



612568	6 - 32 / 12	2275	1F	1	**497,64**

182/2A (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 24 x 26, 25 x 28, 27 x 29, 30 x 32)

183/2

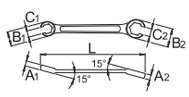
Cheie inelara dublu decupata

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *profilul pana la dimensiunea de 12x14 este in 6 puncte, de la 16x18 pana la 30x32 este in 12 puncte*

Utilizare

- *Aplicatii:in industrie si atelire de reparatii specializate in instalatii hidraulice si pneumatice.*
- *Cheia permite lucrul in zone dificile articulate unde folosirea cheilor clasice nu este posibila prin natura muncii (ex:imbinarea cablurilor de otel, conducte hidraulice si de apa, valve etc)*





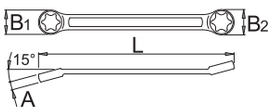
		L	A1	A2	B1	B2	C1	C2				
612701	8 x 10	145	7	8.5	18	20	6	7	48	4A	10	**23,40**
612702	10 x 11	152	8.5	9	20	22	7	8.5	64	4A	10	**26,07**
612703	11 x 13	165	9	11	22	26	8.5	10	88	4A	10	**26,75**
612704	12 x 14	178	10	12	24	28	9	11	125	4A	10	**28,36**
615147	16 x 18	196	12	12.5	30.5	33.5	13	14	203	4A	10	**30,40**
612705	17 x 19	210	13	14	32	35	14	15	204	4A	10	**31,81**
612706	19 x 22	233	14	16	35	41	15	17	242	4A	10	**36,53**
612707	22 x 24	252	16	17	41	45	17	18	297	4A	5	**47,72**
612708	24 x 27	265	17	17	45	48	18	20	367	4A	5	**50,20**
612709	30 x 32	285	21	23	50	52	22	24	552	4A	5	**65,43**

182/2BTX

Chei inelare duble drepte cu profil TX

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *15° unghiul de inclinare al capului inelar asigura o insurubare a piulitei in locurile cu acces dificil*





		L	B1	B2	A				
612892	6 x 8	97	10	11.3	4.6	13	4A	10	**26,37**
612893	10 x 12	112	12.7	14	5.6	20	4A	10	**28,26**
612894	14 x 18	137	16.5	21	6.6	38	4A	10	**33,18**
612895	20 x 24	174	23	27.3	8.6	100	4A	10	**42,47**

183/2CB

Set de chei inelare dublu decupate in cutie de carton



612985	8 - 22 / 6	824	1F	1	**172,98**

183/2 (8 x 10, 10 x 11, 11 x 13, 12 x 14, 17 x 19, 19 x 22)

183/2CB

Set de chei inelare dublu decupate in cutie de carton



612986	8 - 32 / 9	2085	1F	1	**336,28**

183/2 (8 x 10, 10 x 11, 11 x 13, 12 x 14, 17 x 19, 19 x 22, 22 x 24, 24 x 27, 30 x 32)

183/2CT

Set de chei inelare dublu decupate in husa



615467	8 - 24 / 6	1065	1E	1	**260,49**

183/2 (8 x 10, 11 x 13, 12 x 14, 16 x 18, 17 x 19, 22 x 24), CT252 (360 x 290)

160/2

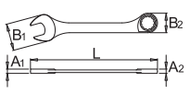
Cheie combinata cu clichet

- *material: crom vanadiu*
- *tratament termic complet*

Avantaje:

- *Clichet: lucrează în ambele sensuri, sensul de rotație se schimba din buton*
- *72-dinti, 5° unghi de lucru*
- *Partea poligonala a cheii este dotata de un inel de blocaj destinat impiedicarii alunecarii neasteptate de pe piulita si de a facilita repozitionarea pe aceasta.*
- *Permite strangerea piulitei usor si rapid, fara risc de ranire a utilizatorului si repozitionarea cheii pe piulita in mod sigur si precis.*





UNIOR

		L	B2	B1	A2	A1				
622818	8	134	17,1	16,7	8,4	4,7	40	4A	10	**51,08**
622819	9	158	21	21	8,4	5,5	55	4A	10	**52,20**
622820	10	158	21	21	8,4	5,5	60	4A	10	**52,20**
622821	11	164	22,6	23	9,7	6	70	4A	10	**54,04**
622822	12	167	23,8	25	9,7	6,2	80	4A	10	**57,98**
622823	13	177	24,9	27,5	9,7	6,0	96	4A	10	**60,95**
622824	14	189	27	29	10,1	7	125	4A	10	**65,09**
622825	15	198	28,1	31,5	11,7	7,2	150	4A	10	**70,00**
622826	16	204	29,9	33	11,7	7,5	165	4A	10	**74,13**
622827	17	224	31,9	34,9	11,7	8	183	4A	10	**79,05**
622828	18	245	34,4	38,9	12	8,8	210	4A	10	**87,32**
622829	19	245	34,4	38,9	19	12	230	4A	10	**91,40**
622831	21	280	45,7	42,6	14,2	9,5	358	4A	5	**120,25**
622832	22	280	45,7	42,6	14,2	9,5	378	4A	5	**115,78**
622834	24	310	51,7	46,5	14,7	10	480	4A	5	**137,28**

161/2

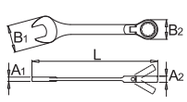
Cheie combinata cu clichet articulata

- *material: crom vanadiu*
- *tratament termic complet*

Avantaje:

- *Clichet: lucrează în ambele sensuri, sensul de rotație se schimba din buton*
- *72-dinti, 5° unghi de lucru*
- *Partea poligonala a cheii este dotata de un inel de blocaj destinat impiedicarii alunecarii neasteptate de pe piulita si de a facilita repozitionarea pe aceasta.*
- *Permite strangerea piulitei usor si rapid, fara risc de ranire a utilizatorului si repozitionarea cheii pe piulita in mod sigur si precis.*





UNIOR

		L	B2	B1	A2	A1				
622839	8	136	17,4	16,9	8,4	4,9	50	4A	10	**70.83**
622841	10	160	20,9	20,8	8,4	3,8	72	4A	10	**74.96**
622842	11	177,5	23,4	25,1	9,7	6,2	95	4A	10	**74.96**
622843	12	177,5	23,4	25,1	9,7	6,2	95	4A	10	**81.53**
622844	13	187,3	24,9	27,2	9,7	6,4	124	4A	10	**84.84**
622845	14	194,7	27,4	29,3	10,1	7	144	4A	10	**87.32**
622846	15	218	30,4	33	11,7	7,4	207	4A	10	**96.37**
622848	17	234,8	31,9	35,2	11,7	8,2	236	4A	10	**106.24**
622850	19	251,3	34,5	39,4	12	9	280	4A	10	**114.46**

160/2CS

Set de chei combinate din otel forjat cu clichet in cutie de carton



UNIOR

623709	8 - 19 / 6	820	1G	1	**404,73**

160/2 (8, 10, 13, 15, 17, 19)

161/2CB

Set de chei combinate forjate articulate cu clichet in cutie de carton



UNIOR

623081	8 - 19 / 5	1360	4F	1	**451,33**

161/2 (8, 10, 13, 17, 19)

160/2CB

Set de chei combinate forjate cu clichet in cutie de carton



UNIOR

623080	8 - 24 / 9	2000	1F	1	**725,10**

160/2 (8, 10, 13, 16, 17, 18, 19, 22, 24)

161/2CS

Set de chei articulate combinate din otel forjat cu clichet, in cutie de carton



UNIOR

623710	8 - 19 / 6	1015	1G	1	**547,69**

161/2 (8, 10, 13, 15, 17, 19)

CT252

Husa goala

- *pentru articol 160,161,170,183*



UNIOR

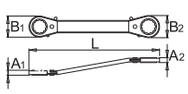
	A	B				
615155	360	290	98	1E	1	**72,04**

166

Chei inelare dublu cotite cu clichet

- *matrial:clichet: crom vanadiu*
- *corp: din tabla, acoperire prin cromare*
- *carcasa exterioara executata din plastic*
- *capul cheii este tratat in intregime*
- *inclinarea minima a unghiului pentru 20°*





UNIOR

		L	B1	B2	A1	A2				
611640	6 x 7	111	20	20	11.2	11	60	4A	10	**41,93**
611641	7 x 8	130	20.6	23	11	11.2	77	4A	10	**43,88**
611642	8 x 9	130	20.6	23	11	11.2	69	4A	10	**43,88**
611643	8 x 10	130	20.6	23	11	11.2	67	4A	10	**44,90**
611644	10 x 11	136	23.4	26.4	11	11	77	4A	10	**45,82**
611645	12 x 13	167	30.1	32	13	13.1	153	4A	10	**66,74**
611646	12 x 14	167	30.1	32	13	13.1	153	4A	10	**66,74**

170/2CS

Set de chei forjate inelare cu clichet, in cutie de carton



UNIOR

623711	6 - 19 / 6	850	1G	1	**623,48**

170/2 (6 x 8, 10 x 11, 12 x 13, 14 x 15, 16 x 18, 17 x 19)

170/2

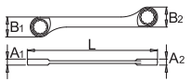
Chei combinate forjate cu clichet

- *material: crom vanadiu*
- *tratament termic complet*

Avantaje:

- *Clichet: lucrează in ambele sensuri, sensul de rotație se schimba din buton*
- *72-dinti, 5° unghi de lucru*
- *Partea poligonala a cheii este dotata de un inel de blocaj destinat impiedicarii alunecarii neasteptate de pe piulita si de a facilita repozitionarea pe aceasta.*
- *Permite strangerea piulitei usor si rapid, fara risc de ranire a utilizatorului si repozitionarea cheii pe piulita in mod sigur si precis.*





UNIOR

		L	B2	B1	A2	A1				
622851	6 x 8	114,2	17,4	17,4	8,4	8,4	40	4A	10	**87,32**
622852	8 x 9	130,4	20,9	17,4	8,4	8,4	55	4A	10	**87,32**
622853	8 x 10	130,4	20,9	17,4	8,4	8,4	55	4A	10	**87,32**
622854	10 x 11	144,4	22,9	20,9	9,7	8,4	72	4A	10	**88,14**
622856	12 x 13	166	24,9	23,4	9,7	9,7	97	4A	10	**94,71**
622857	14 x 15	181,4	30,4	27,4	11,7	10,1	142	4A	10	**107,89**
622858	16 x 18	205,9	33,9	30,4	12	11,7	198	4A	10	**121,08**
622859	17 x 19	224,4	34,4	31,9	12	11,7	211	4A	10	**124,39**

170/2CB

Set de chei combinate forjate cu clichet in cutie de carton



UNIOR

623082	6 - 19 / 6	800	1F	1	**591,91**

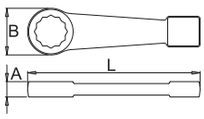
170/2 (6 x 8, 10 x 11, 12 x 13, 14 x 15, 16 x 18, 17 x 19)

184/7

Chei inelare de soc

- *material: otel carbon de scule*
- *forjata, calire si revenire totala*
- *Acoperire: uleiere anticoroziva*
- *in concordanta cu standardul DIN 7444(numai dimensiunile in mm)*





UNIOR

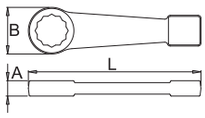
		L	B	A				
620494	24	180	48.6	16	534	1F	1	80,46
620495	27	180	48.6	16	514	1F	1	90,19
620496	30	180	48.6	16	488	1F	1	106,82
620497	32	190	58.4	18	739	1F	1	113,88
620498	36	190	58.4	18	694	1F	1	143,79
620499	41	235	74	22	1425	1F	1	187,14
620500	46	235	74	22	1360	1F	1	208,10
620501	50	235	74	22	1335	1F	1	233,69
620502	55	275	97.6	27	2800	1F	1	262,34
620503	60	275	97.6	27	2710	1F	1	283,16
620504	65	275	97.6	27	2580	1F	1	366,54
620505	70	330	108	33	4685	1F	1	417,91
620506	75	330	108	33	4570	1F	1	439,60
620507	80	360	124	36	4305	1F	1	602,86
620508	85	360	124	36	4220	1F	1	734,78
620509	90	390	142	39	5335	1F	1	888,84
620510	95	390	142	39	5090	1F	1	992,50
620511	100	425	153	44	6800	1F	1	1083,57
620512	105	425	153	45	5930	1F	1	2000,23
620513	110	450	168	47	8200	1F	1	2037,54
620514	115	450	168	47	8400	1F	1	2685,54
620515	120	495	190	53	11400	1F	1	2826,32
620516	125	495	190	53	10800	1F	1	2996,05
620517	130	520	200	58	13400	1F	1	3810,85
620518	135	520	200	60	13800	1F	1	4141,39
620519	140	575	220	61	17000	1F	1	4258,77
620520	145	575	220	61	16600	1F	1	5726,68
620521	150	575	220	61	17000	1F	1	6060,39
620522	1.1/16"	180	49	16	512	1F	1	94,76
620523	1.1/8"	180	49	16	511	1F	1	94,76
620525	1.1/4"	190	58	18	740	1F	1	119,57
620526	1.5/16"	190	58	18	708	1F	1	150,99
620527	1.3/8"	190	58	18	700	1F	1	150,99
620528	1.7/16"	190	58	18	687	1F	1	150,99
620529	1.1/2"	235	74	22	1470	1F	1	196,48
620530	1.5/8"	235	74	22	1425	1F	1	196,48
620531	1.11/16"	235	74	22	1440	1F	1	196,48
620532	1.3/4"	235	74	22	1410	1F	1	218,42
620533	1.13/16"	235	74	22	1360	1F	1	218,42
620534	1.7/8"	235	74	22	1350	1F	1	245,37
620535	2"	235	74	22	1335	1F	1	245,37
620536	2.1/16"	275	98	27	1860	1F	1	275,38
620537	2.1/8"	275	98	27	2840	1F	1	275,38
620538	2.3/16"	275	98	27	2800	1F	1	275,38
620539	2.1/4"	275	98	27	2730	1F	1	297,37
620540	2.5/16"	275	98	27	2670	1F	1	297,37
620541	2.3/8"	275	98	27	2710	1F	1	297,37
620542	2.1/2"	300	102	28.5	2580	1F	1	355,74
620543	2.9/16"	300	102	28.5	2580	1F	1	367.51
620544	2.5/8"	300	102	28.5	4685	1F	1	433.48
620545	2.3/4"	330	108	33	4685	1F	1	457.94
620546	2.15/16"	330	108	33	4520	1F	1	529.11
620547	3"	330	108	33	4570	1F	1	545.60
620548	3.1/8"	360	124	36	4305	1F	1	760.66
620549	3.3/8"	360	124	36	4220	1F	1	1118.74
620550	3.1/2"	390	142	39	5335	1F	1	1383.56
620553	4"	425	153	44	6800	1F	1	1902.07
620555	4.1/2"	450	168	47	8400	1F	1	2098.55

7184

Chei inelare de soc

- *material: otel carbon de scule*
- *forjata, calire si revenire totala*
- *acoperire: brunare*
- *in concordanta cu standardul DIN 7444*





KRONUS Professional Quality

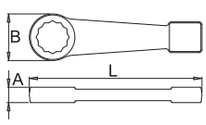
	mm	L	B	A	g	
700659	24	180	48.6	16	534	40,69
700660	27	180	48.6	16	514	42,84
700661	30	180	48.6	16	488	53,97
700662	32	190	58.4	18	739	65,11
700663	36	190	58.4	18	694	82,46
700664	41	235	74	22	1425	100,88
700665	46	235	74	22	1360	122,93
700666	50	235	74	22	1335	162,58
700667	55	275	97.6	27	2800	192,14
700668	60	275	97.6	27	2710	259,67
900501	65	275	97.6	27	2580	259,67
900502	70	330	108	33	4685	357,52

270SG

Chei inelare de soc

- *material: otel carbon de scule*
- *forjata, calire si revenire totala*
- *acoperire: brunare*
- *in concordanta cu standardul DIN 7444*





WGB Das Werkzeug

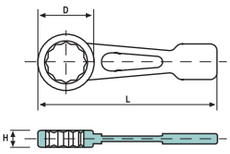
	mm	L	g	
2711007	110	450	7750	4097,62
2711507	115	447	7450	4471,73
2712007	120	475	12150	4814,16
2712507	125	480	9550	9193,66
2713507	135	520	12100	10450,11
2714007	140	520	12250	12166,31
2714507	145	580	18100	15947,93
2715007	150	580	18200	17019,99

FSWM

Chei inelare de soc

- *material: otel carbon de scule*
- *forjata, calire si revenire totala*
- *acoperire: brunare*
- *in concordanta cu standardul DIN 7444*





OZAT 2000 LTD.

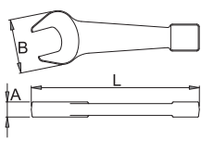
	mm	D	L	H	g	
FSWM16	16	40	140	17	288	**146,21**
FSWM17	17	40	140	17	288	**146,21**
FSWM18	18	40	140	17	288	**146,21**
FSWM19	19	40	140	17	288	**146,21**
FSWM20	20	40	140	17	288	**146,21**
FSWM21	21	40	140	17	288	**146,21**
FSWM22	22	47	185	17	390	**146,21**
FSWM23	23	47	185	17	390	**146,21**
FSWM24	24	47	185	17	390	**146,21**
FSWM25	25	47	185	17	390	**149,39**
FSWM26	26	47	185	17	390	**149,39**
FSWM27	27	47	185	17	390	**149,39**
FSWM28	28	54	190	17	430	**178,93**
FSWM29	29	54	190	17	430	**178,93**
FSWM30	30	54	190	17	430	**178,41**
FSWM31	31	54	190	17	430	**220,68**
FSWM32	32	54	190	17	430	**183,89**
FSWM33	33	54	190	17	430	**220,68**
FSWM34	34	54	190	17	430	**220,68**
FSWM35	35	54	190	17	430	**279,46**
FSWM36	36	60	190	17	650	**232,97**
FSWM37	37	66	215	22	800	**279,46**
FSWM38	38	66	215	22	800	**279,46**
FSWM39	39	66	215	22	800	**366,81**
FSWM40	40	66	215	22	800	**366,81**
FSWM41	41	66	215	22	800	**306,03**
FSWM42	42	74	240	23	800	**366,81**
FSWM43	43	74	240	23	800	**366,81**
FSWM44	44	74	240	23	800	**393,02**
FSWM45	45	74	240	23	800	**393,02**
FSWM46	46	74	240	23	800	**327,35**
FSWM47	47	74	240	23	800	**393,02**
FSWM48	48	74	240	23	800	**393,02**
FSWM49	49	74	240	23	800	**453,20**
FSWM50	50	74	240	23	800	**375,99**
FSWM51	51	86	270	25	1800	**453,20**
FSWM52	52	86	270	25	1800	**453,20**
FSWM54	54	86	270	25	1800	**510,21**
FSWM55	55	86	270	25	1800	**444,02**
FSWM56	56	94	270	25	1800	**510,21**
FSWM57	57	94	270	25	1800	**510,21**
FSWM58	58	94	270	25	1800	**544,18**
FSWM59	59	94	270	25	1800	**544,18**
FSWM60	60	94	270	25	1800	**453,57**
FSWM61	61	102	300	30	2500	**544,18**
FSWM62	62	102	300	30	2500	**592,90**
FSWM65	65	102	300	30	2500	**592,90**
FSWM67	67	102	300	30	2500	**709,64**
FSWM70	70	115	330	33	3400	**658,78**
FSWM72	72	115	330	33	3400	**710,60**
FSWM73	73	115	330	33	3400	**710,60**
FSWM75	75	115	330	33	3400	**710,60**
FSWM76	76	115	330	33	3400	**842,00**
FSWM77	77	115	330	33	3400	**842,00**
FSWM80	80	125	360	36	3900	**1046,99**
FSWM82	82	125	360	36	3900	**1259,30**
FSWM85	85	125	360	36	3900	**1181,65**
FSWM86	86	142	390	40	3900	**1516,77**
FSWM87	87	142	390	40	3900	**1516,77**
FSWM90	90	142	390	40	3900	**1525,88**
FSWM95	95	142	390	40	3900	**1709,77**
FSWM100	100	155	420	45	6100	**1820,07**
FSWM105	105	155	420	45	6100	**2043,41**
FSWM110	110	170	450	48	9500	**2316,36**
FSWM115	115	170	450	48	9500	**2524,16**
FSWM120	120	185	475	54	10500	**4274,34**
FSWM125	125	185	475	54	10500	**5208,14**
FSWM130	130	202	530	58	13000	**7098,09**
FSWM135	135	202	530	58	13000	**5916,00**
FSWM140	140	202	530	58	13000	**6889,41**
FSWM145	145	225	580	64	19000	**9032,17**
FSWM150	150	225	580	64	19000	**9633,21**
FSWM155	155	225	580	64	19000	**10032,59**
FSWM160	160	225	580	64	19000	**10352,54**
FSWM165	165	265	650	70	27000	**11070,40**
FSWM170	170	265	650	70	27000	**13448,79**
FSWM175	175	265	650	70	27000	**15913,65**
FSWM180	180	265	650	70	27000	**16346,05**
FSWM190	190	290	700	75	33000	**17816,41**
FSWM200	200	290	700	75	33000	**18378,58**
FSWM210	210	320	750	80	38000	**18940,76**
FSWM220	220	320	750	80	38000	**24674,87**
FSWM230	230	320	750	80	38000	**30097,62**

118/7

Chei fixe de soc

- *material: otel carbon de scule*
- *forjata, calire si revenire totala*
- *Acoperire: uleiere anticoroziva*
- *in concordanta cu standardul DIN 133*





UNIOR

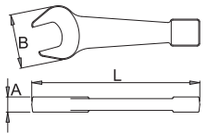
		L	B	A				
620466	24	170	56	15	489	1F	1	**68,44**
620467	27	170	56	15	477	1F	1	**68,44**
620468	30	200	70	18	863	1F	1	**89,60**
620469	32	200	70	18	863	1F	1	**94,52**
620470	36	200	70	18	834	1F	1	**122,73**
620471	41	240	88	20	1490	1F	1	**150,26**
620472	46	240	88	20	1450	1F	1	**205,04**
620473	50	265	102	20	1790	1F	1	**231,55**
620474	55	305	112	24	2700	1F	1	**269,98**
620475	60	305	112	24	2615	1F	1	**300,87**
620476	65	335	123	27	3645	1F	1	**386,05**
620477	70	370	154	30	2200	1F	1	**472,59**
620478	75	370	154	30	4865	1F	1	**518,02**
620479	80	400	170	33	6450	1F	1	**631,56**
620480	85	400	170	33	5775	1F	1	**703,46**
620481	90	450	192	38	7620	1F	1	**929,36**
620482	95	450	192	38	9400	1F	1	**1025,92**
620483	100	485	225	45	10800	1F	1	**1193,89**
620484	105	485	225	45	10400	1F	1	**1852,40**
620485	110	515	236	48	12400	1F	1	**1981,36**
620486	115	515	236	52	15800	1F	1	**2526,23**
620487	120	535	253	53	20000	1F	1	**2733,07**
620488	125	535	253	53	19200	1F	1	**2932,66**
620489	130	565	273	53	23200	1F	1	**3784,34**
620490	135	565	273	53	23400	1F	1	**3899,68**
620491	140	635	300	58	28800	1F	1	**4083,07**
620492	145	635	300	58	28800	1F	1	**5560,22**
620493	150	635	300	58	28200	1F	1	**6008,44**

7118

Chei fixe de soc

- *material: otel carbon de scule*
- *forjata, calire si revenire totala*
- *acoperire: brunare*
- *in concordanta cu standardul DIN 133*





KRONUS

	mm	L	A	B	g	
700264		170	56	15	489	**41,34**
700265		170	56	15	477	**51,4**
700266		200	70	18	863	**59,97**
700267		200	70	18	863	**63,19**
700268		200	70	18	834	**77,31**
700269		240	88	20	1490	**99,59**
700270		240	88	20	1450	**130,22**
700271		265	102	20	1790	**154,12**
700272		305	112	24	2700	**187,89**
700273		305	112	24	2615	**196,34**

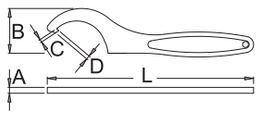


255/2

Chei cu gheara

- *material crom vanadium*
- *capul cheii este tratat in intregime*
- *acoperire cromare conform EN12540*
- *conform cu standardul DIN 1810*





UNIOR

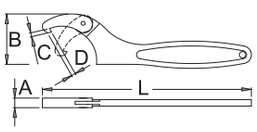
		L	C	D	A	B				
613050	12 - 14	109	1.2	1.5	3	12	27	4A	10	**20,04**
613051	16 - 20	109	1.5	2	3	12	28	4A	10	**20,04**
613052	25 - 28	136	2	2.5	4	21	56	4A	10	**20,63**
613053	30 - 32	136	2	2.5	4	21	55	4A	10	**20,63**
613054	34 - 36	171	2.5	3	5	28.5	114	4A	10	**27,58**
613055	40 - 42	171	2.5	3	5	28.5	111	4A	10	**27,58**
613056	45 - 50	207	3	3.5	6	37	206	4A	10	**33,66**
613057	52 - 55	207	3	3.5	6	37	209	4A	10	**33,66**
613058	58 - 62	242	3.5	4	7	46	320	4A	10	**44,41**
613059	68 - 75	242	3.5	4	7	46	303	4A	10	**44,41**
613060	80 - 90	281	4	5	8	61	472	4A	10	**60,08**
613061	95 - 100	281	4	5	8	61	436	4A	10	**60,08**
613062	110 - 115	334	4	5	10	81	805	1E	10	**99,92**
613063	120 - 130	334	4	5	10	81	829	1E	5	**99,92**

255/2F

Chei cu gheara flexibila

- *material:crom vanadium*
- *capul cheii este tratat in intregime*
- *acoperire cromare conform EN12540*





UNIOR

		L	C	D	A	B				
615027	15 - 35	140	3	3.5	7	25	83	4A	10	**60,27**
615028	35 - 50	201	4	4	10	41.5	196	4A	10	**81,19**
615029	50 - 80	262	5	5	12	68	455	4A	10	**113,49**
615030	80 - 120	320	5.5	5.5	14	86	829	4A	10	**163,20**
615031	120 - 180	420	7.5	9	16	134	1768	1E	10	**232,33**

255/2CT

Set de chei cu ghiara in husa



UNIOR

615156	9	3116	1E	1	509,51

255/2 (30-32, 40-42, 45-50, 52-55, 58-62, 68-75, 80-90, 95-100, 110-115)

681 B

Chei cu gheara, varianta cu stift

- *conform DIN 1810 B*
- *acoperire: brunare*
- *pentru caneluri cu gauri radiale DIN 1816*



WGB Das Werkzeug

	mm	pin	L	g	
9207921	12-14	2	110	23	54,85
9202231	16-18	2.5	110	22	30,72
9202241	20-22	2.5	110	21	30,72
9202251	25-28	3	136	45	41,12
9202261	30-32	4	136	45	41,12
9202271	34-36	4	170	88	61,44
9202281	40-42	4	170	88	61,92
9202291	45-50	5	205	154	87,86
9202301	52-55	5	205	156	87,86
9202311	58-62	5	240	251	129,05
9202321	68-75	6	240	251	129,05
9202331	80-90	6	280	400	190,07
9202341	95-100	8	280	410	190,07
9202351	110-115	8	335	566	284,10
9202361	120-130	8	335	578	284,10
9202371	135-145	8	380	1000	423,07
9202381	155-165	8	380	1000	423,07
9202391	180-195	10	470	1580	680,68
9202401	205-220	10	470	1580	680,68

516 B

Cheie cu gheara flexibila, varianta cu stift

- *conform DIN 1810 B*
- *acoperire: brunare*
- *pentru caneluri cu gauri radiale DIN 1816*



WGB Das Werkzeug

	mm	pin	L	g	
9222851	22-35	2.9	151	97	240,62
9222861	35-60	4	175	97	255,26
9222871	60-90	5.5	250	267	307,75
9222881	95-155	6	290	446	446,65
9227721	165-230	9.5	390	1200	716,60

193N

Chei cu maner de plastic in T

- *material:tija-crom vanadium tratata complet*
- *maner-polipropilena*
- *placat cu invelis de crom conform EN 12540*



UNIOR

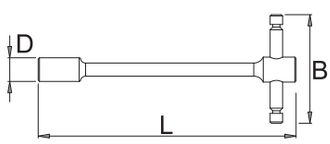
		D	L	B				
608283	5.5	8.8	230	88	106	4B	10	39,50
608284	6	9	230	88	107	4B	10	39,50
608285	7	11	230	88	112	4B	10	40,91
608286	8	12	230	88	135	4B	10	41,25
608287	9	13	230	88	160	4B	10	42,22
608288	10	14	230	88	161	4B	10	43,68
608289	11	16	230	88	169	4B	10	54,87
608290	12	17.5	230	88	196	4B	6	56,04
608291	13	18	230	88	199	4B	6	57,06
608292	14	20	230	88	208	4B	6	58,96
608293	15	22	230	88	212	4B	6	62,75
608294	16	22	230	88	214	4B	6	64,50
608295	17	23	230	88	223	4B	6	65,57

196/2

Chei cu maner in T

- *material:crom vanadium*
- *capul cheii este tratat in intregime*
- *acoperire cromare conform EN12540*





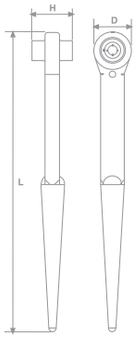
UNIOR

		D	B	L				
602075	8	12.5	165	235	149	4A	10	46,65
602076	10	15	180	260	239	4A	10	49,72
605001	12	18	180	260	303	4A	10	54,68
602077	13	19.2	180	260	307	4A	10	63,00
602078	17	24	220	285	499	4A	5	88,83

RWM

Cheie inelara simpla cu clichet cu doua capete





OZAT 2000 LTD.

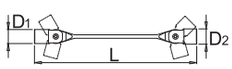
	mm	D	H	L	g	
RWM1012	10x12	36	38	300	630	**247,11**
RWM1417	14x17	36	38	300	630	**247,11**
RWM1319	13x19	36	38	300	630	**251,55**
RWM1719	17x19	36	38	300	630	**251,55**
RWM1824	18x24	43	56	382	840	**282,05**
RWM1921	19x21	43	56	382	840	**282,05**
RWM1922	19x22	43	56	382	840	**282,05**
RWM1924	19x24	43	56	382	840	**282,05**
RWM2124	21x24	43	56	382	840	**301,00**
RWM2224	22x24	43	56	382	840	**315,58**
RWM2427	24x27	43	56	382	840	**360,82**
RWM2430	24x30	62	63	417	2200	**427,81**
RWM2730	27x32	62	63	417	2200	**433,73**
RWM3036	30x36	62	63	417	2200	**442,40**
RWM3236	32x36	62	63	417	2200	**448,24**
RWM3641	36x41	62	63	417	2200	**465,71**

202/1

Chei tubulare articulate

- *material:crom vanadium*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*





UNIOR

		L	D1	D2				
609132	8 x 9	198	12	13	96	4A	10	**50,01**
609133	8 x 10	200.5	12	14.6	82	4A	10	**53,27**
609134	10 x 11	214	14.6	16	95	4A	10	**55,41**
609135	12 x 13	227	17	18	148	4A	10	**58,91**
609136	13 x 17	242	18	23	213	4A	10	**66,64**
609137	14 x 15	241	19.5	20.5	211	4A	10	**64,55**
609138	16 x 17	255	22	24	295	4A	10	**68,35**
609139	18 x 19	273	24.5	26	391	4A	10	**79,63**
609141	20 x 22	295	27.5	30	518	4A	5	**93,45**

202/1CB

Set de chei tubulare dublu articulate in cutie de carton



UNIOR

609145	8 - 22 / 7	1880	1F	1	**470,30**

202/1 (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)

202/1CB

Set de chei tubulare dublu articulate in cutie de carton



UNIOR

609146	8 - 32 / 10	4220	1F	1	**854,50**

202/1 (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 30 x 32)

202/1CT

Set de chei tubulare dublu articulate in husa

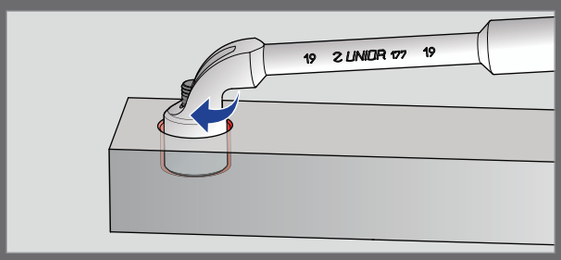


UNIOR

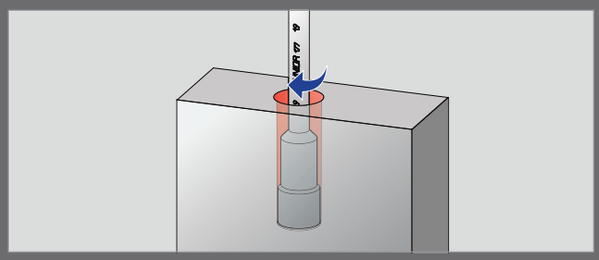
615472	8 - 22 / 8	2122	1E	1	**625,67**

202/1 (8 x 9, 10 x 11, 12 x 13, 13 x 17, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **CT129** (470 x 330)

176, 177



Forma si deschiderea cheii permit insurubarea piulitelor pe filete lungi



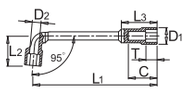
Datorita profilului adanc, cheia se foloseste si ca cheie de capete tubulare, pentru capete tubulare si filete

176

Chei tubulare pipa cu 6 laturi

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*





UNIOR

		L1	L2	C	D1	T	L3	D2				
609102	6	104,5	22	21	10	7	27	6	44	4A	10	**48,79**
609103	7	108	25	21	11	8	27	6	47	4A	10	**48,79**
609104	8	113	26	24	12	9	30	7	76	4A	10	**50,64**
609105	9	118	27	25	13	9	30	7	78	4A	10	**51,90**
609106	10	123	31	30	15	12	36	8	123	4A	10	**55,84**
609107	11	128,5	32	30	16	13	36	8	125	4A	10	**59,74**
609108	12	135	33	34	17	13	43.5	8	161	4A	10	**63,92**
609109	13	143	36,5	34	20	13	43.5	12	186	4A	10	**65,43**
609110	14	149,5	40	40	21	14	48	12	226	4A	10	**80,36**
609111	15	163	41,5	40	22	15	48	14	236	4A	10	**80,36**
609112	16	173	46,5	46	24	17	57	15	340	4A	10	**80,36**
609113	17	184,5	46,5	46	25.3	18	57	15	360	4A	10	**94,13**
609114	18	198	49	49	28.5	18	61	15	411	4A	10	**94,13**
609115	19	204	52	49	28.5	19	61	15	445	4A	10	**95,78**
609116	20	207	53,5	55	29.5	21	63.5	15	495	4A	10	**123,32**
609117	21	216	57	55	30	22	63.5	15	487	4A	10	**123,32**
609118	22	231	57	61	32	22	68	16	590	4A	10	**152,16**
609119	23	238	62	61	33	24	74	20	640	4A	5	**152,16**
609120	24	249	64,5	65	34.5	25	77.5	20	713	4A	5	**166,27**
609121	25	260	67	65	35	26	77.5	20	703	1C	5	**170,60**
609122	26	270,5	68	70	36	27	81	22	876	1C	5	**198,52**
609123	27	280	68	70	36.5	28	81	22	867	1C	5	**207,67**
609124	28	290,5	70	70	38.5	29	84	23	1045	1C	5	**217,05**
609125	29	298,5	72	85	40	30	90	24	1140	1C	5	**230,58**
609126	30	311	75	85	42	31	96.5	25	1257	1C	5	**240,79**
609127	32	330,5	79	85	44	32	97.5	25	1434	1C	5	**271,63**
609128	35	340	90	88	48.5	35	100	27	2200	1C	1	**329,47**
609129	36	376	80	88	49.5	36	101	27	2235	1C	1	**338,57**

176CB

Trusa de chei tubulare pipa material plin in cutie de carton



UNIOR

609130	8 - 24 / 16	5230	1F	1	**1466,45**

176 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24)

176CB

Trusa de chei tubulare pipa material plin in cutie de carton



UNIOR

609131	8 - 32 / 22	11800	1F	1	**2832,70**

176 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 28, 29, 30, 32)

176CS6

Set de chei pipa in cutie de carton



UNIOR

620581	8 - 19 / 6	1365	1G	1	**421,56**

176 (8, 10, 11, 13, 17, 19)

176CS11

Set de chei pipa in cutie de carton



UNIOR

620582	8 - 24 / 11	3650	1G	1	978,35

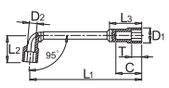
176 (8, 10, 11, 12, 13, 16, 17, 18, 19, 22, 24)

177

Cheie tubulara pipa

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*





UNIOR

		L1	L2	C	D1	T	L3	D2				
609083	8	113	26	24	12	9	30	7	76	4A	10	50,64
609084	9	118	27	25	13	9	30	7	78	4A	10	51,90
609085	10	123	31	30	15	12	36	8	123	4A	10	55,84
609086	11	128,5	32	30	16	13	36	8	125	4A	10	59,74
609087	12	135	33	34	17	13	43.5	8	161	4A	10	63,92
609088	13	143	36,5	34	20	13	43.5	12	186	4A	10	65,43
609089	14	149,5	40	40	21	14	48	12	226	4A	10	80,36
609090	15	163	41,5	40	22	15	48	14	236	4A	10	80,36
609091	16	173	46,5	46	24	17	57	15	340	4A	10	80,36
609092	17	184,5	46,5	46	25.3	18	57	15	360	4A	10	94,13
609093	18	198	49	49	28.5	18	61	15	411	4A	10	94,13
609094	19	204	52	49	28.5	19	61	15	445	4A	10	95,78
609095	20	207	53,5	55	29.5	21	63.5	15	495	4A	10	123,32
609096	21	216	57	55	30	22	63.5	15	487	4A	10	123,32
609097	22	231	57	61	32	22	68	16	590	4A	10	152,16
609098	23	238	62	61	33	24	74	20	640	4A	5	152,16
609099	24	249	64,5	65	34.5	25	77.5	20	713	4A	5	166,27

177CB

Trusa de chei tubulare pipa material plin in cutie de carton



UNIOR

609100	8 - 24 / 16	5230	1F	1	1466,45

177 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24)

177CS6

Set de chei pipa in cutie de carton



UNIOR

620583	8 - 19 / 6	1365	1G	1	381,30

177 (8, 10, 11, 13, 17, 19)

177CS11

Set de chei pipa in cutie de carton



UNIOR

620584	8 - 24 / 11	3650	1G	1	421,56

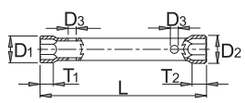
177 (8, 10, 11, 12, 13, 16, 17, 18, 19, 22, 24)

215/2

Cheie tubulara teava

- *material:crom molibden*
- *capul cheii este tratat in intregime*
- *acoperire cromare conform EN12540*
- *in conformitate cu standardul DIN 896(numai dimensiuni in mm)*





UNIOR

		L	D1	D2	D3	T1	T2				
600696	6 x 7	105	10	11.2	6.3	8	8	28	4A	10	18,24
600697	8 x 9	105	12.7	14	6.3	9	9	39	4A	10	20,14
600698	8 x 10	120	12.8	15	6.3	8	8	64	4A	10	20,87
600699	10 x 11	120	15.5	16.7	6.3	10	10	64	4A	10	23,50
600700	12 x 13	140	18.2	19.5	8.5	12	12	104	4A	10	25,34
600717	13 x 17	150	20	24.6	10.5	13	13	144	4A	10	29,62
600701	14 x 15	140	21.2	22.3	8.5	14	14	134	4A	10	27,48
600718	14 x 17	150	21.2	24.6	10.5	13	13	142	4A	10	29,62
600702	16 x 17	150	23.5	24.6	10.5	15	15	158	4A	10	29,62
607957	16 x 18	100	23.5	25.8	10.5	14	14	118	4A	10	35,41
600719	17 x 19	160	24.6	27	12.5	16	16	183	4A	10	35,41
607958	17 x 21	165	24.6	29.3	12.5	16	16	199	4A	10	35,41
600703	18 x 19	155	25.8	27	12.5	16	16	184	4A	10	35,41
605043	18 x 21	160	25.8	29.3	12.5	16	16	165	4A	10	37,85
605044	19 x 22	170	27	31.4	12.5	18	18	266	4A	10	39,99

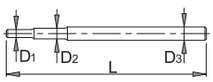
		L	D1	D2	D3	T1	T2				
607960	19 x 24	160	27	33.7	14.5	20	20	230	4A	10	**39,26**
600705	20 x 22	165	29	31.4	12.5	18	18	269	4A	10	**39,99**
600706	21 x 23	165	30.3	32.5	14.5	20	20	282	4A	5	**44,85**
607962	22 x 24	160	31.4	33.7	14.5	20	20	299	4A	5	**48,55**
600707	24 x 26	180	33.7	36	14.5	22	22	356	4A	5	**48,55**
600723	24 x 27	190	33.7	37.2	14.5	22	22	374	4A	5	**48,55**
600708	25 x 28	200	34.8	38.3	16.5	24	24	432	1E	5	**61,10**
607964	27 x 29	200	38.1	40.5	16.5	25	25	521	1E	5	**67,32**
617633	27 x 30	200	38.1	41.6	16.5	25	25	528	1E	5	**64,99**
600709	27 x 32	200	38.1	44	16.5	27	27	536	1E	5	**67,32**
602557	30 x 32	200	41.6	44	16.5	27	27	585	1E	5	**67,32**
603128	30 x 36	215	42.6	49.6	18.5	28	28	730	1E	5	**83,23**
603129	36 x 41	215	51.6	57.4	18.5	31	31	1070	1E	5	**103,08**
618575	41 x 46	235	52	57	22	34	34	1555	1E	1	**192,05**
618576	46 x 50	235	59	63	22	68	68	2030	1E	1	**230,77**
618577	50 x 55	235	63	68	22	75	75	2030	1E	1	**248,28**

215.1/2

Tija de antrenare chei tubulare teava

- *material:otel carbon de scule*
- *capul cheii este tratat in intregime*
- *acoperire cromare conform EN12540*





UNIOR

		L	D1	D2	D3				
600745	6 - 17	230	6	8	10	137	1E	1	**12,84**
600747	18 - 32	330	12	14	16	493	1E	1	**37,75**
624342	36 - 55	500		18	20		1E	1	**63,09**

215/2CB

Trusa de chei tubulare in cutie de carton



UNIOR

600710	6 - 32 / 14	3241	1F	1	**492,14**

215/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), **215.1/2** (6 - 17, 18 - 41)

217/2

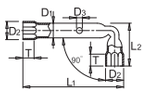
Chei tubulare pipa din teava

- *material:crom molibden*
- *capul cheii este tratat in intregime*
- *acoperire cromare conform EN12540*

Utilizare

- *Aplicatii: in industrie si ateliere de reparatii pentru lucrul in locuri greu accesibile.Datorita formei locasului se asigura imbracarea etansa a elementelor de ansamblare cu filete lungi*





UNIOR

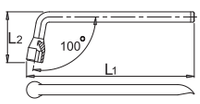
		L1	L2	D1	D2	D3	T				
617053	5.5	98	25	7	8,5	4.3	7	18	4A	10	**17,56**
617054	6	103	26	9	10	5,3	8	35	4A	10	**17,76**
617055	7	106	26	9	11,2	5,3	8	36	4A	10	**17,85**
617056	8	112	34	11	12,5	6.3	9	48	4A	10	**20,72**
617057	9	110	34	11	13,5	6.3	9	54	4A	10	**20,82**
617058	10	121	41	13	15.5	6.3	10	82	4A	10	**22,86**
617059	11	120	40	13	16,7	6.3	10	81	4A	10	**22,86**
617060	12	135	46	16	18,2	8.5	12	123	4A	10	**27,73**
617061	13	133	46	16	19,5	8.5	12	126	4A	10	**28,21**
617062	14	138	50	18	21	8.5	14	163	4A	10	**32,54**
617063	15	135	51	18	22,3	8.5	14	163	4A	10	**32,54**
617064	16	143	57	20	23,2	10.5	15	197	4A	10	**36,82**
617065	17	140	56	20	24,6	10.5	15	197	4A	10	**36,82**
617066	18	149	65	22	25,8	12.5	16	234	4A	10	**41,25**
617067	19	150	64	22	27	12.5	16	237	4A	10	**41,25**
617069	21	158	67	25	30,3	12.5	18	332	4A	5	**43,10**
617070	22	159	71	25	31,4	12.5	20	353	4A	5	**50,20**
617075	32	190	98	34	44	16.5	27	745	1E	5	**82,94**

210/2

Cheie pentru roti

- *material:crom vanadium*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*





UNIOR

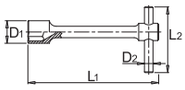
		L1	L2				
600782	17	255	27	476	4A	5	**57,21**
600783	19	285	29.5	541	4A	5	**65,87**

212/2

Chei in T pentru roti

- *material: crom vanadium*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *in concordanta cu ISO DIN 3112*





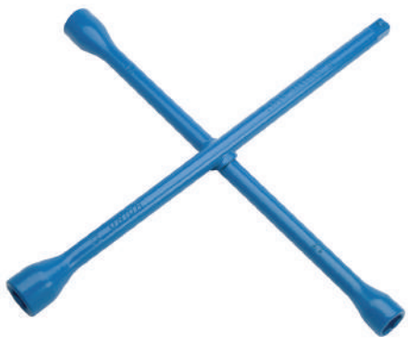
UNIOR

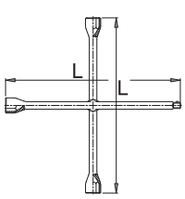
		L1	D1	L2	D2				
600785	17	260	26	300	12	720	1C	1	**95,93**
600786	19	280	28.5	300	12	800	1C	1	**100,31**
600788	24	315	33.5	400	14	1280	1C	1	**134,60**
600789	27	355	38.5	400	20	2220	1C	1	**150,65**
600790	30	425	42.5	400	20	2450	1C	1	**165,83**
600791	32	430	48	400	20	2815	1C	1	**196,33**

213/6

Cheie cruce pentru roti

- *material: crom vanadium*
- *forjata, calire si revenire totala*
- *vopsite*
- *in conformitate cu standardul ISO 6788 (numai dimensiuni in mm)*

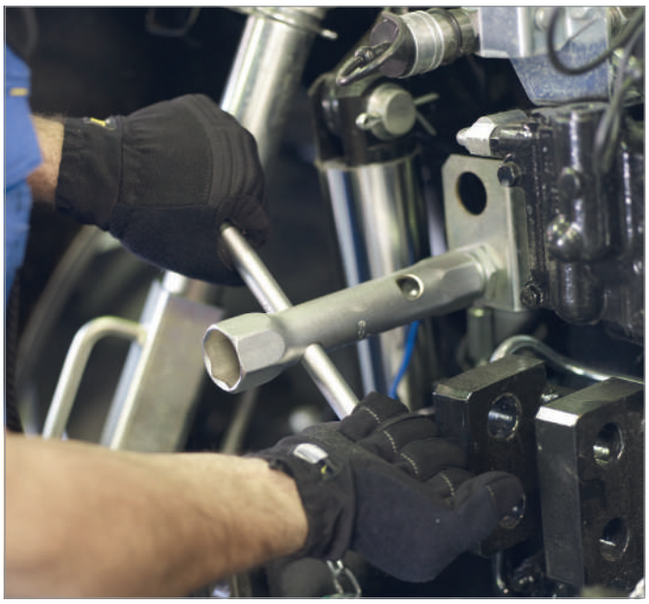




UNIOR

					L				
600810	17	19	11/16"	1/2"	370	1355	1F	1	**168,94**
600811	17	19	22	1/2"	370	1430	1F	1	**168,94**
600809	17	19	21	23	370	1511	1F	1	**150,46**
600812	17	19	22	24	370	1500	1F	1	**150,46**
600813	24	27	30	3/4"	700	4400	1F	1	**341,34**
600814	24	27	30	32	700	4600	1F	1	**341,34**



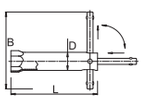


185/2

Cheie de bujii

- *material:otel carbon de scule*
- *acoperire cromare conform EN12540*





UNIOR

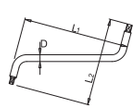
		D	L	B				
600771	16	19	145	120	182	1E	10	**22,38**
607956	19	22	115	120	199	1E	10	**23,01**
600772	21	24	115	120	177	1E	10	**23,40**
600773	21	24	180	120	248	1E	10	**24,66**

175/2

Cheie shimbat ulei la cutia de viteze

- *material: crom vanadiu*
- *capul cheii este tratat in intregime*
- *acoperire cromare conform EN12540*





UNIOR

		L1	L2	D				
605112	8 x 10	203	169	10	305	4A	10	**33,42**

205/2

Cheie filtru de ulei cu banda din textura sintetica acoperita cu cauciuc

- *material:crom vanadium*
- *banda din invelis de cauciuc*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*



UNIOR

	L	Ø↓	Ø↑				
601024	220	60	140	225	1E	10	**67,37**

205.1

Banda din textura sintetica acoperita cu cauciuc pentru art. 205/2

- *banda din invelis de cauciuc*



UNIOR

602841	62	1E	10	**43,49**

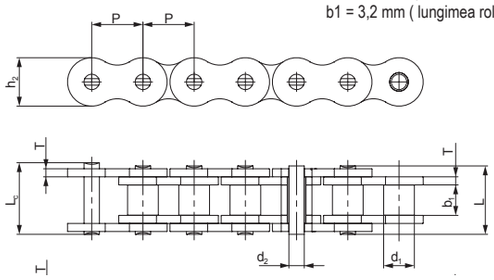
206/2

Cheie cu lant

- *material:crom vanadium*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*



P = 12,7 mm (½") (pasul lantului)
h2 = 9,5 mm (latimea eclisei)
L = 9,5$^{-0,1}$ (latilmea lantului)
T = t = 1,0 mm (grosimea ecliselor)
d2 = 3,6 mm (diametrul boltului)
d1 = 7,7 mm (diametrul rolei)
b1 = 3,2 mm (lungimea rolei



UNIOR

	L	Ø↓	Ø↑				
601025	220	60	140	330	1E	10	**129,83**

206.1

Lant pentru art. 206



UNIOR

	L				
620938	500	150	1E	5	**25,39**

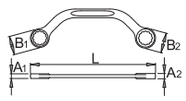


200/2

Chei inelare semiluna

- *material:crom vanadium*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*





UNIOR

		L	B1	B2	A1	A2				
600671	11 x 13	150	16.5	19	7	8.5	54	4A	10	**38,58**
600672	13 x 17	185	19.2	24.2	8.7	10.3	99	4A	10	**43,44**
600673	14 x 17	185	20.5	24.2	8.7	10.3	104	4A	10	**43,44**
600674	15 x 16	185	21.6	23.6	8.7	10.3	104	4A	10	**43,44**
600676	19 x 22	230	27.2	31.8	10	11.5	178	4A	10	**55,75**

200/2CB

Set de chei inelare semiluna in cutie de carton



UNIOR

600677	11 - 22 / 5	605	1F	1	**224,64**

200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)

220/3

Chei locas hexagonal

- *material:crom vanadium*
- *tratate*
- *acoperire prin nichelare*
- *conform cu standardul ISO 2936 (doar pentru dimensiunile in mm)*



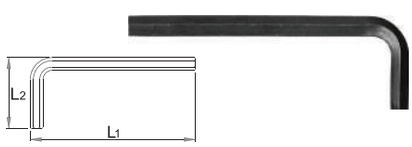
UNIOR

		L1	L2				
607823	1.5	46.5	15.5	5	4B	10	**0,63**
607824	2	52	18	6	4B	10	**0,63**
607825	2.5	58.5	20.5	7	4B	10	**0,63**
601036	3	66	23	10	4B	10	**1,02**
601037	4	74	29	15	4B	10	**1,36**
601038	5	85	33	23	4B	10	**1,99**
601040	6	96	38	35	4B	10	**2,87**
601041	7	102	41	47	4B	10	**4,18**
601042	8	108	44	65	4B	10	**5,69**
601044	10	122	50	108	4B	10	**9,15**
601045	12	137	57	163	4B	10	**13,86**
601046	14	154	70	258	4B	10	**21,79**
601047	17	177	80	433	1X	5	**33,95**
601048	19	199	89	603	1X	5	**48,50**



Hex-L® tamper resistant

Cheie locas hexagonal cu gaura

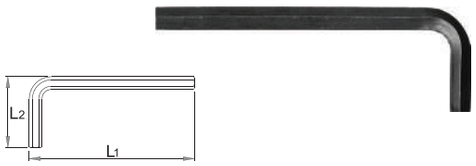


Eklind

		L1	L2		
90206	3/32"	133	25	8	**17,70**
90208	1/8"	133	25	12	**17,31**
90210	5/32"	133	30	20	**18,23**
90212	3/16"	133	30	28	**18,36**
90214	7/32"	133	30	38	**19,15**
90216	1/4"	133	35	51	**19,02**
90220	5/16"	133	35	80	**21,90**
90224	3/8"	133	35	115	**24,39**

Hex-L®

Cheie locas hexagonal, varianta scurta



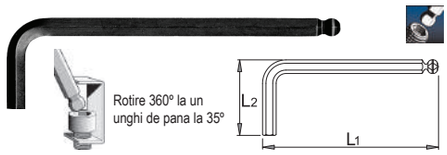
Eklind

		L1	L2		
15500	0,7	31	6	3	**0,92**
15501	0,9	31	9	2	**0,92**
15502	1,3	41	13	5	**0,79**
15503	1,5	44	13	5	**0,79**
15504	2,0	49	15	9	**0,79**
15505	2,5	55	18	16	**0,79**
15506	3,0	62	19	26	**0,79**
15508	4,0	68	24	54	**1,05**
15510	5,0	78	27	98	**1,70**
15512	6,0	88	31	63	**2,49**
15514	7,0	93	35	45	**3,93**
15516	8,0	98	35	63	**3,67**
15518	9,0	103	39	84	**5,77**
15520	10,0	109	39	110	**6,03**
15524	12,0	122	44	185	**11,80**
15528	14,0	136	55	295	**20,98**
15534	17,0	156	61	98	**28,07**
15538	19,0	176	69	136	**43,28**
15544	22,0	210	69	206	**62,30**
15548	24,0	235	67	274	**94,30**
15551	27,0	244	98	385	**246,16**
15556	32,0	308	122	648	**295,48**
15560	36,0	346	136	955	**369,31**
15101	0.028"	31	6	1	**0,92**
15102	0.035"	31	9	4	**0,92**
15103	0.05"	42	13	5	**0,79**
15104	1/16"	44	14	8	**0,79**
15105	5/64"	48	15	9	**0,79**
15106	3/32"	51	17	14	**0,79**
15107	7/64"	54	18	20	**0,92**
15108	1/8"	57	19	28	**0,92**
15109	9/64"	60	20	37	**0,92**
15110	5/32"	64	21	49	**0,92**
15112	3/16"	70	24	78	**1,31**
15114	7/32"	76	26	47	**1,97**
15116	1/4"	83	28	67	**2,49**
15120	5/16"	95	32	60	**3,93**
15124	3/8"	108	35	97	**5,77**
15128	7/16"	121	38	155	**12,07**
15132	1/2"	133	41	215	**13,90**
15136	9/16"	146	44	300	**20,72**
15140	5/8"	159	48	412	**26,89**
15148	3/4"	184	54	135	**43,28**
15156	7/8"	210	60	205	**64,66**
15164	1"	235	67	297	**94,30**
15166	1 1/8"	260	70	435	**290,36**
15168	1 1/4"	308	122	675	**306,62**
15172	1 1/2"	337	89	1060	**383,21**
15176	1 3/4"	387	102	1492	**664,00**
15180	2"	438	114	2170	**1098,23**

Ball-Hex™

Cheie locas hexagonal cu cap sferic

Eklind

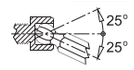


		L1	L2		
18609	4,5	110	25	20	**5,77**
18624	12,0	209	44	276	**48,39**
18628	14,0	232	55	419	**69,11**
18634	17,0	246	61	133	**96,39**
18638	19,0	276	69	186	**138,75**

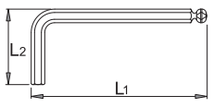
220/3S

Chei locas hexagonal cu cap sferic

- *material:crom vanadium*
- *tratate*
- *acoperire prin nichelare*







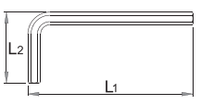
UNIOR

	⬢	L1	L2				
607826	1.5	46.5	15.5	5	4B	10	**2,72**
607827	2	52	18	6	4B	10	**2,72**
607828	2.5	58.5	20.5	7	4B	10	**3,06**
607829	3	66	23	10	4B	10	**3,45**
607830	4	74	29	15	4B	10	**5,25**
607831	5	85	33	23	4B	10	**5,89**
607832	6	96	38	35	4B	10	**9,05**
607834	8	108	44	65	4B	10	**15,57**
607835	10	122	50	108	4B	10	**27,29**

Hex-L®

Cheie locas hexagonal, varianta lunga





Eklind

	⬢	L1	L2		
15600	0,7	66	6	1	**1,97**
15601	0,9	68	9	1	**1,84**
15602	1,3	72	13	6	**0,66**
15603	1,5	77	13	7	**1,05**
15604	2,0	81	15	14	**1,05**
15605	2,5	88	18	24	**0,92**
15606	3,0	99	19	38	**0,92**
15607	3,5	101	21	13	**1,84**
15608	4,0	104	24	75	**1,84**
15609	4,5	110	25	20	**1,84**
15610	5,0	116	27	133	**1,84**
15611	5,5	127	29	38	**3,80**
15612	6,0	138	31	90	**3,80**
15614	7,0	157	35	62	**6,30**
15616	8,0	157	35	92	**6,30**
15618	9,0	167	39	118	**9,31**
15620	10,0	167	39	153	**9,70**
15622	11,0	191	38	215	**18,36**
15624	12,0	209	44	280	**17,70**
15628	14,0	232	55	430	**27,15**
15634	17,0	246	61	136	**44,07**
15638	19,0	276	69	190	**62,03**
15644	22,0	356	69	300	**93,25**
15648	24,0	362	67	385	**124,98**
15651	27,0	413	98	512	**320,00**
15656	32,0	503	122	842	**738,36**
15660	36,0	514	136	1345	**935,21**
15201	0.028"	66	6	1	**2,10**
15202	0.035"	68	9	2	**1,84**
15203	0.05"	72	13	5	**0,92**
15204	1/16"	76	14	8	**0,92**
15205	5/64"	81	15	14	**1,05**
15206	3/32"	86	17	24	**1,05**
15207	7/64"	90	18	31	**1,31**
15208	1/8"	95	19	42	**1,57**
15209	9/64"	100	20	56	**1,57**
15210	5/32"	105	21	72	**1,70**

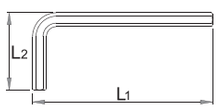
	⬢	L1	L2		
15212	3/16"	114	24	115	**1,84**
15214	7/32"	124	26	68	**2,89**
15216	1/4"	133	28	97	**3,93**
15220	5/16"	152	32	87	**6,03**
15224	3/8"	171	35	140	**9,44**
15228	7/16"	191	38	220	**18,10**
15232	1/2"	210	41	310	**20,72**
15236	9/16"	229	44	430	**28,07**
15240	5/8"	248	48	570	**43,80**
15248	3/4"	286	54	187	**64,39**
15256	7/8"	324	60	285	**93,25**
15264	1"	362	67	411	**124,98**
15266	1 1/8"	400	70	745	**653,77**
15268	1 1/4"	503	122	842	**664,00**
15272	1 1/2"	514	89	1430	**1174,69**
15276	1 3/4"	591	102	2220	**1624,26**
15280	2"	670	114	3000	**2657,97**

220/3L

Chei locas hexagonal varianta lunga

- *material:crom vanadium*
- *tratate*
- *acoperire prin nichelare*
- *conform cu standardul ISO 2936 (doar pentru dimensiunile in mm)*





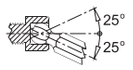
UNIOR

	⬢	L1	L2				
608510	1.5	91.5	15.5	6	4B	10	**2,53**
608511	2	102	18	7	4B	10	**2,53**
608512	2.5	114.5	20.5	10	4B	10	**3,06**
608513	3	129	23	14	4B	10	**3,31**
608514	4	144	29	22	4B	10	**4,86**
608515	5	165	33	35	4B	10	**7,15**
608516	6	186	38	55	4B	10	**7,15**
608517	7	197	41	78	4B	10	**11,53**
608518	8	208	44	105	4B	10	**11,58**
608519	10	234	50	105	4B	10	**17,71**
608520	12	262	57	105	4B	10	**27,78**
608521	14	294	70	437	4B	10	**45,63**
608522	17	337	80	753	1X	5	**77,35**
608523	19	379	89	1026	1X	5	**103,86**
616975	1/16"	92	16	6	4B	10	**2,33**
616976	5/64"	102	18	7	4B	10	**2,33**
616977	3/32"	114	20	10	4B	10	**2,87**
616978	1/8"	129	23	14	4B	10	**3,11**
616979	9/64"	140	26	22	4B	10	**3,79**
616980	5/32"	144	29	22	4B	10	**4,38**
616981	3/16"	165	33	35	4B	10	**5,30**
616982	7/32"	176	36	55	4B	10	**5,89**
616983	1/4"	186	38	55	4B	10	**6,57**
616984	5/16"	208	44	105	4B	10	**10,70**
616985	3/8"	234	50	105	4B	10	**16,88**
616986	7/16"	261	53	105	4B	10	**25,00**
616987	1/2"	293	63	105	4B	10	**25,78**
616988	9/16"	294	69	437	4B	10	**42,08**
616989	5/8"	336	76	753	1X	10	**65,72**
616990	3/4"	379	89	1026	1X	5	**96,46**

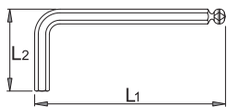
220/3SL

Chei locas hexagonal cu cap sferic, varianta lunga

- *material:crom vanadium*
- *tratate*
- *acoperire prin nichelare*







UNIOR

		L1	L2				
608524	1.5	91.5	15.5	6	4B	10	3,06
608525	2	102	18	7	4B	10	3,31
608526	2.5	114.5	20.5	10	4B	10	3,84
608527	3	129	23	14	4B	10	4,28
608528	4	144	29	22	4B	10	6,32
608529	5	165	33	35	4B	10	7,49
608530	6	186	38	55	4B	10	11,04
608531	8	208	44	105	4B	10	19,41
608532	10	234	50	105	4B	10	34,88

220FH

Set chei locas hexagonal cu maner tip briceag



UNIOR

617146	2.5 - 10 / 7	300	1E	1	102,54

220/3 (2.5, 3, 4, 5, 6, 8, 10)

220/3MH

Set de chei locas hexagonal tip briceag metalic



UNIOR

610986	2.5 - 10 / 7	349	1E	1	66,55

220/3 (2.5, 3, 4, 5, 6, 8, 10)



25161

Set chei locas hexagonal tip briceag



Eklind

	Componenta set	
25161	3,0-10,0 / 6 piese 3,0; 4,0; 5,0; 6,0; 8,0; 10,0 mm	51,15

25181

Set chei locas hexagonal tip briceag



Eklind

	Componenta set	
25181	2,0-8,0 / 8 piese 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 7,0; 8,0 mm	46,03



220FH

Set chei locas hexagonal cu maner tip briceag



UNIOR

617149	3/32" - 3/8" / 7	300	1E	1	102,54

220/3(3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")

25611

Set chei locas hexagonal tip briceag



	Componenta set	
25611	5/32"-3/8" / 6 piese 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	51,15

25911

Set chei locas hexagonal tip briceag



	Componenta set	
25911	5/64" - 1/4" / 9 piese 5/64", 3/32", 7/64", 1/8" , 9/64", 5/32", 3/16", 7/32", 1/4"	35,80

25912

Set chei locas hexagonal tip briceag



	Componenta set	
25912	.050" - 3/16" / 9 piese .050", 1/16", 5/64", 3/32", 7/64", 1/8" , 9/64", 5/32", 3/16"	30,69

220/3SFH

Set de chei locas hexagonal cu cap sferic cu maner tip briceag



617147	2.5 - 10 / 7	298	1E	1	135,82

220/3S (2.5, 3, 4, 5, 6, 8, 10)

25169

Set chei locas hexagonal tip briceag



	Componenta set	
25169	2,0-6,0 / 6 piese 2,0; 2,5; 3,0; 4,0; 5,0; 6,0	46,03

25519

Set chei locas hexagonal cu cap sferic, tip briceag



	Componenta set	
25519	3/16"-3/8" / 5 piese 3/16", 7/32", 1/4", 5/1", 3/8"	66,49

25919

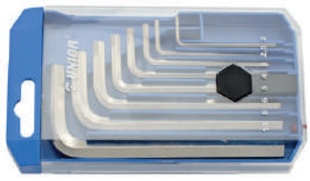
Set chei locas hexagonal cu cap sferic, tip briceag



	Componenta set	
25919	5/64"-1/4" / 9 piese 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	56,39

220/3PB1

Set de chei locas hexagonal in cutie de plastic

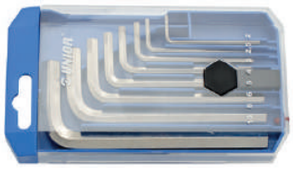


610914	2 - 10 / 8	310	1S	1	46,89

220/3 (2, 2.5, 3, 4, 5, 6, 8, 10)

220/3PB1

Set de chei locas hexagonal in cutie de plastic



UNIOR

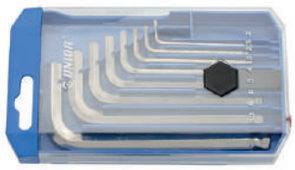
612161	5/64" - 3/8" / 8	300	1S	1	46,89

220/3 (5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")

220/3SPB1

Set de chei locas hexagonal cu cap sferic in cutie de plastic

25°
25°



UNIOR

610916	2 - 10 / 8	316	1S	1	89,26

220/3S (2, 2.5, 3, 4, 5, 6, 8, 10)

220/3LPB2

Set de chei locas hexagonal lungi in cutie de plastic



UNIOR

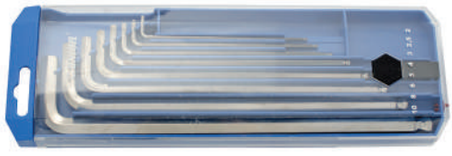
610915	2 - 10 / 8	536	1S	1	88,87

220/3L (2, 2.5, 3, 4, 5, 6, 8, 10)

220/3SLPB2

Set de chei locas hexagonal lungi cu cap sferic in cutie de plastic

25°
25°



UNIOR

610917	2 - 10 / 8	544	1S	1	122,15

220/3SL (2, 2.5, 3, 4, 5, 6, 8, 10)

220/3PH

Set de chei locas hexagonal in suport de plastic



UNIOR

607852	1.5 - 10 / 9	250	1X	1	38,09

220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

220/3PH

Set chei locas hexagonal in suport de plastic



UNIOR

617079	1.5 - 12 / 10	416	1X	1	52,00

220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12)

10509

Set chei locas hexagonal scurte in suport de plastic



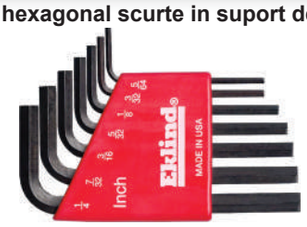
Eklind

	Componenta set	
10509	1,5-10,0 / 9 piese 1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 8,0; 10,0 mm	29,38



10107

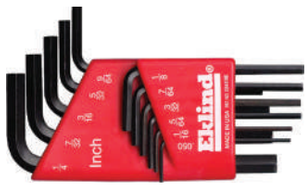
Set chei locas hexagonal scurte in suport de plastic



	Componenta set	
10107	5/64" - 1/4" / 7 piese 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"	**13,38**

10111

Set chei locas hexagonal scurte in suport de plastic



	Componenta set	
10111	.050"-1/4" / 11 piese .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	**21,77**

10112

Set chei locas hexagonal scurte in suport de plastic



	Componenta set	
10112	.050"-5/16"/12 piese .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"	**26,49**

10113

Set chei locas hexagonal scurte in suport de plastic



	Componenta set	
10113	.050"-3/8"/13 piese .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	**33,05**

10018

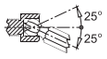
Set chei locas hexagonal scurte si lungi in suport plastic



	Componenta set	
10018	.050" - 5/16" / 18 piese **scurte:** .050", 1/16", 5/64", 3/32", 7/64", 5/32", 3/16"; **lungi:** 1/16", 5/64", 3/32", 1/8", 9/64", 5/32", 3/16", 1/4", 5/16"	**31,61**

220/3SPH

Set de chei locas hexagonal scurte, cu cap sferic, in suport de plastic





607853	1.5 - 10 / 9	252	1X	1	**86,30**

220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

220/3LPH

Set de chei locas hexagonal lungi in suport de plastic



608533	1.5 - 10 / 9	416	1X	1	**71,51**

220/3L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

220/3LPH

Set de chei locas hexagonal, varianta lunga in suport de plastic

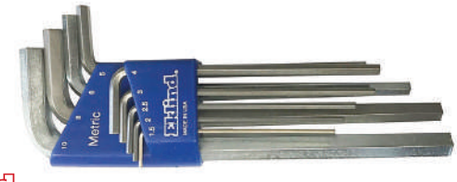


617080	1.5 - 12 / 10	700	1X	1	**94,47**

220/3L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12)

11609

Set chei locas hexagonal lungi in suport de plastic



	Componenta set	
11609	1.5 - 10 / 9 piese 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	**42,75**

10609

Set chei locas hexagonal lungi in suport de plastic



	Componenta set	
10609	1,5-10,0 / 9 piese 1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 8,0; 10,0 mm	**40,39**

10213

Set chei locas hexagonal lungi in suport de plastic



	Componenta set	
10213	.050"-3/8"/13 piese .050", 1/16", 5/64", 3/32", 7/64",1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"0	**47,87**

220/3LPH

Set de chei locas hexagonal, varianta lunga in suport de plastic



UNIOR

617082	1/16" - 3/8" / 9	400	1X	1	**90,82**

220/3L (1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")

220/3SLPH

Set de chei locas hexagonal lungi cu cap sferic in suport de plastic



UNIOR

608534	1.5 - 10 / 9	425	1X	1	**105,02**

220/3SL (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

10207

Set chei locas hexagonal lungi in suport de plastic



	Componenta set	
10207	5/64"-1/4" / 7 piese 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"	**21,25**

13709

Set de chei locas hexagonal lungi cu cap sferic in suport de plastic



	Componenta set	
13709	1.5 - 10 / 9 piese 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	**73,31**

10211

Set chei locas hexagonal lungi in suport de plastic



	Componenta set	
10211	.050"-1/4" / 11 piese .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	**21,25**

17709

Set de chei locas hexagonal extralungi cu cap sferic in suport de plastic



	Componenta set	
17709	1.5 - 10 / 9 piese 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	**86,82**

10212

Set chei locas hexagonal lungi in suport de plastic



	Componenta set	
10212	.050" - 5/16" / 12 piese .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"	**34,23**

13507

Set de chei locas hexagonal lungi cu cap sferic in suport de plastic



	Componenta set	
13507	1.5 - 6 / 7 piese 1.5, 2, 2.5, 3, 4, 5, 6 mm	**38,69**

13609

Set de chei locas hexagonal lungi cu cap sferic in suport de plastic



	Componenta set	
13609	1,5-10,0 / 9 piese 1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 8,0; 10,0 mm	**60,59**

29016

Set combo chei locas hexagonal 13609 si 25171, 16 piese



	Componenta set	
29016	**25171:** 1,5-6,0 / 7 piese 1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0 **13609:** 1,5-10,0 / 9 piese 1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 8,0; 10,0	**93,25**

13509

Set de chei locas hexagonal lungi cu cap sferic, varianta Stubby in suport de plastic



	Componenta set	
13509	1,5-10,0 / 9 piese 1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 8,0; 10,0 mm	**72,13**

17609

Set chei locas hexagonal lungi cu doua capete sferice in suport de plastic

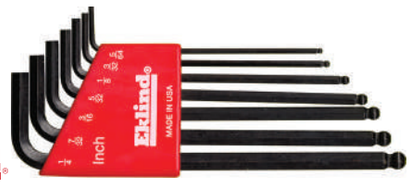
- *bratul sferic scurt cu o sectiune mai mare pentru a rezista unui cuplu mai mare*
- *unghi de 100° pentru acces usor*
- *20° interval de miscare*
- *acces in siguranta in zone greu accesibile*
- *in curs de brevetare*



	Componenta set	
17609	1,5-10,0 / 9 piese 1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 8,0; 10,0 mm	**83,15**

13207

Set de chei locas hexagonal lungi cu cap sferic in suport de plastic



	Componenta set	
13207	5/64" - 1/4" / 7 piese 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"	**35,93**

13212

Set de chei locas hexagonal lungi cu cap sferic in suport de plastic



	Componenta set	
13212	.050" - 5/16" / 12 piese .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"	**52,46**

13297

Set de chei locas hexagonal lungi cu cap sferic in suport de plastic



	Componenta set	
13297	5/64"-3/16"/7 piese 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16"	**32,13**

17213

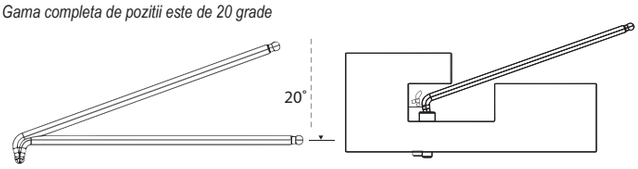
Set chei locas hexagonal lungi cu doua capete sferice in suport de plastic

- *bratul sferic scurt mai gros pentru a rezista unui cuplu mai mare*
- *unghi de 100° pentru acces usor*
- *20° interval de miscare*
- *acces in siguranta in zone greu accesibile*
- *in curs de brevetare*



	Componenta set	
17213	.050" - 3/8" / 12 piese .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	**96,79**

Gama completa de pozitii este de 20 grade



220/3PB

Set de chei locas hexagonal in husa de plastic



UNIOR

601059	3 - 14 / 8	660	1X	1	**65,96**

220/3 (3, 4, 5, 6, 8, 10, 12, 14)

220/3PB

Set de chei locas hexagonal in husa de plastic



UNIOR

601057	3 - 10 / 6	237	1X	1	**31,08**

220/3 (3, 4, 5, 6, 8, 10)

220/3PB

Set de chei locas hexagonal in husa de plastic



UNIOR

601061	3 - 19 / 10	1715	1X	1	**147,98**

220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)

10592

Set de chei locas hexagonal in husa de plastic



Eklind

10592	Componenta set 0,7-10,0 / 12 piese 0,7; 0,9; 1,3; 1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 8,0; 10,0	**31,34**

69210

Set de chei locas hexagonal in husa de plastic



Eklind

69210	Componenta set 1,3-10,0 / 10 piese 1,3; 1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 8,0; 10,0 mm	**25,31**

69511

Set de chei locas hexagonal si inel suport in husa de plastic



Eklind

69511	Componenta set 1,5-10,0 / 10 piese 1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 7,0; 8,0; 10,0 mm	**76,46**

69215

Set de chei locas hexagonal in husa de plastic



Eklind

69215	Componenta set .028" - 3/8" / 15 piese .028", .035", .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	**19,02**

69218

Set de chei locas hexagonal scurte si lungi in husa de plastic



Eklind

69218	Componenta set .050" - 5/16" / 20 piese **scurte:** .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 7/32" **lungi:** 1/16", 5/64", 3/32", 7/64", 5/32", 3/16", 1/4", 5/16"	**28,33**

69213

Set de chei locas hexagonal in husa de plastic

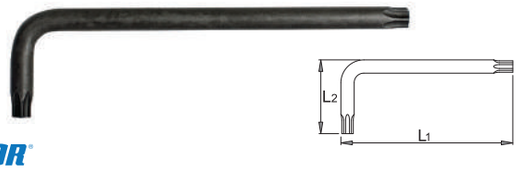


	Componenta set	
69213	.050" - 3/8" / 15 piese	71,48
	.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	

220/7TX

Chei locas cu profil TX cu gaura

- *material:crom vanadium*
- *capul cheii este tratat in intregime*
- *Acoperire prin brunare conform DIN 50938*

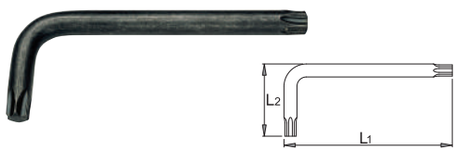


		L1	L2				
616296	TR 9	59	19	9	4B	10	22,23
609173	TR 10	65	20	9	4B	10	22,23
609174	TR 15	75.5	20.5	12	4B	10	22,23
609175	TR 20	87	22	15	4B	10	22,81
609176	TR 25	97.5	22.5	18	4B	10	23,30
609177	TR 27	105.5	25.5	25	4B	10	25,30
609178	TR 30	111	30	32	4B	10	25,73
609179	TR 40	119	33	45	4B	10	28,80

220/7TXN

Chei locas cu profil TX

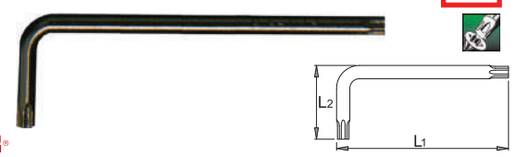
- *material:crom vanadium*
- *capul cheii este tratat in intregime*
- *Acoperire prin brunare conform DIN 50938*



		L1	L2				
616991	TX 6	44.5	18.5	7	4B	10	14,89
616992	TX 7	50.5	18.5	7	4B	10	14,89
616993	TX 8	51	19	8	4B	10	14,89
616994	TX 9	51	19	8	4B	10	13,38
616995	TX 10	54	20	8	4B	10	13,72
616996	TX 15	57.5	21.5	10	4B	10	13,72
616997	TX 20	61	23	13	4B	10	13,82
616998	TX 25	64.5	24.5	15	4B	10	14,20
616999	TX 27	69.5	26.5	21	4B	10	15,18
617000	TX 30	76	30	25	4B	10	15,23
617001	TX 40	83	33	35	4B	10	17,17
617002	TX 45	91	37	50	4B	10	20,43
617003	TX 50	104	41	67	4B	10	22,67
617004	TX 55	120	47	126	4B	10	32,54

Torx®

Chei locas cu profil TX, varianta scurta



		L1	L2		
15805	T5	39	12	3	17,05
15806	T6	40	12	5	16,13
15807	T7	42	13	4	14,82
15808	T8	44	14	2	14,82
15809	T9	48	15	5	14,82
15810	T10	51	17	8	5,25
15815	T15	54	18	12	5,38
15820	T20	57	19	19	5,64
15827	T27	64	22	27	6,56
15845	T45	83	29	53	10,23
15850	T50	95	32	62	11,67
15860	T60	133	41	215	27,15

Torx®

Chei locas cu profil TX, varianta lunga



		L1	L2		
15905	T5	69	12	4	17,84
15910	T10	86	17	13	5,38
15915	T15	91	18	18	5,77
15920	T20	95	19	28	6,03
15925	T25	100	20	31	6,69
15927	T27	105	22	44	7,21
15930	T30	114	24	52	8,00

Ball / Torx®

Chei locas cu profil TX si cap sferic



		L1	L2		
15006	T6	70	12	2	18,62
15007	T7	72	13	3	17,57
15008	T8	76	14	4	17,57
15060	T60	210	41	238	34,89

Torx®

Chei locas cu profil TX cu gaura, varianta lunga



		L1	L2		
15706	T6	70	12	4	22,82
15707	T7	72	13	5	21,51
15708	T8	76	14	4	21,51
15745	T45	133	29	75	18,23
15750	T50	152	32	88	19,54
15755	T55	171	35	156	29,38
15760	T60	210	41	245	38,82

220/7TXNFH

Set de chei cu profil TX cu maner tip briceag



617150	TX 9 - TX 40 / 8	225	1E	1	**140,92**

220/7TXN (TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)

220/7TXMH

Set de chei locas hexagonal cu profil TX tip briceag metalic



610987	TX 9 - TX 40 / 8	269	1E	1	**175,27**

220/7TX(TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)

25570

Set de chei cu profil TX cu maner tip briceag



Componenta set		
25570	TX10 - TX40 / 7 piese T10, T15, T20, T25, T27, T30, T40	**73,97**

220/7TXPH

Set de chei locas cu profil TX in suport de plastic



613089	TR 9 - TR 40 / 8	130	1X	1	**192,29**

220/7TX (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40)

220/7TXPPH

Set de chei locas cu profil TXP in suport de plastic

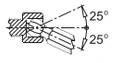


617078	TX 9 - TX 40 / 8	162	1X	1	**219,58**

220/7TXP (TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)

220/7TXSPH

Set de chei cu profil TXS si cap sferic in suport de plastic





613090	TX 9 - TX 40 / 8	173	1X	1	**221,38**

220/7TXS(TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)

10807

Set de chei locas cu profil TX in suport de plastic



Componenta set		
10807	TX10-TX40/7 piese T10; T15; T20; T25; T27; T30; T40	**57,44**

10907

Set de chei lungi cu profil TX in suport de plastic



Componenta set		
10907	TX10-TX40/7 piese T10; T15; T20; T25; T27; T30; T40	**73,18**



10007

Set de chei locas cu profil TX si cap sferic in suport de plastic



	Componenta set	
10007	TX10-TX40/7 piese T10; T15; T20; T25; T27; T30; T40	**79,87**

10707

Set de chei locas cu profil TX si cap gaura in suport de plastic



	Componenta set	
10707	TX10-TX40/7 piese T10; T15; T20; T25; T27; T30; T40	**107,54**

11907

Set de chei locas cu profil TX si cap gaura in suport de plastic



	Componenta set	
11907	TX10-TX40/7 piese T10; T15; T20; T25; T27; T30; T40	**64,66**

10814

Set de chei locas cu profil TX in husa de plastic



	Componenta set	
10814	TX6-TX55 / 14 piese T6; T7; T8; T9; T10; T15; T20; T25; T27; T30; T40; T50; T55	**179,02**

10897

Set de chei locas cu profil TX in husa de plastic



	Componenta set	
10897	TX6-TX20 / 7 piese T6; T7; T8; T9; T10; T15; T20	**76,72**

10910

Set de chei locas cu profil TX in husa de plastic



	Componenta set	
10910	TX10 - TX55 / 10 piese T10, T15, T20, T25, T27, T30, T40, T45, T50, & T55	**103,48**

10810

Set de chei locas cu profil TX in husa de plastic



	Componenta set	
10810	TX10-TX55/7 piese T10; T15; T20; T25; T27; T30; T40; T50; T55	**97,18**



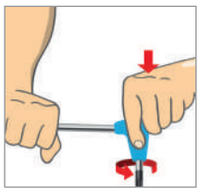
193HX

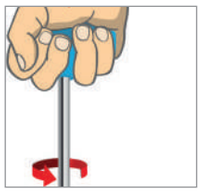
Chei hexagonale cu maner in T

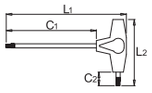
- *material:tija-crom vanadium tratata complet*
- *maner-polipropilena*
- *lama cromata, varful brunat*



UNIOR







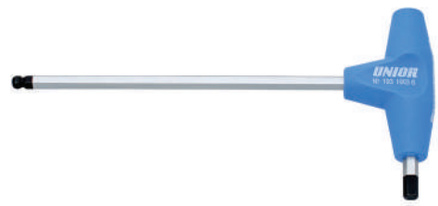
		L1	C1	C2	L2				
623238	2	155	125	15	61	12	4B	10	16,20
607161	2.5	155	125	15	61	13	4B	10	16,20
607162	3	155	125	15	61	16	4B	10	16,59
607163	3.5	155	125	15	61	20	4B	10	16,93
607164	4	155	125	15	61	24	4B	10	21,16
607165	4.5	188	150	20	88	57	4B	10	21,50
607166	5	188	150	20	88	56	4B	10	23,84
607167	6	188	150	20	88	74	4B	10	25,88
607168	7	223	175	25	113	128	4B	6	34,98
607169	8	223	175	25	113	155	4B	6	36,68
607170	10	248	200	25	113	233	4B	6	47,82

193HXS

Chei hexagonale cu cap sferic si cu maner

- *material:tija-crom vanadium tratata complet*
- *maner-polipropilena*
- *lama cromata, varful brunat*

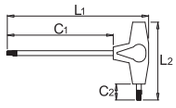




UNIOR







		L1	C1	C2	L2				
608276	2.5	155	125	15	61	13	4B	10	16,78
608277	3	155	125	15	61	16	4B	10	17,41
608278	4	155	125	15	61	25	4B	10	21,79
608279	5	188	150	20	88	56	4B	10	24,57
608280	6	188	150	20	88	72	4B	10	27,05
608281	8	223	175	25	113	153	4B	6	38,33
608282	10	248	200	25	113	234	4B	6	50,35

Power-T™ Ball-Hex 9"

Cheie cu maner in T si profil hexagonal cu cap sferic, varianta lunga





Eklind

	L1	L2		
64820	2,0	51	229	44	15,34
64825	2,5	51	229	48	16,00
64830	3,0	76	229	50	15,34
64840	4,0	76	229	60	17,44
64850	5,0	102	229	136	19,02
64860	6,0	102	229	154	25,31
64870	7,0	127	229	140	40,39
64880	8,0	127	229	145	40,39
64885	9,0	127	229	160	44,33
64890	10,0	127	229	169	44,33
61805	5/64"	51	229	44	15,34
61806	3/32"	51	229	46	15,34
61807	7/64"	51	229	50	15,34
61808	1/8"	76	229	52	16,00
61809	9/64"	76	229	56	16,00
61810	5/32"	76	229	60	18,10
61812	3/16"	102	229	134	18,23
61814	7/32"	102	229	144	25,44
61816	1/4"	102	229	158	26,89
61820	5/16"	127	229	144	40,00
61824	3/8"	127	229	163	43,93

Power-T™ Hex 6"

Cheie cu maner in T si profil hexagonal, varianta scurta





Eklind

	L1	L2		
64620	2,0	76	152	45	11,54
64625	2,5	76	152	45	11,80
64630	3,0	76	152	50	13,11
64640	4,0	76	152	55	15,08
64650	5,0	102	152	124	16,26
64660	6,0	102	152	138	20,72
64670	7,0	127	152	125	33,84
64680	8,0	127	152	131	32,66
64685	9,0	127	152	140	37,51
64690	10,0	127	152	148	37,51
61605	5/64"	76	152	42	11,93
61606	3/32"	76	152	44	11,80
61607	7/64"	76	152	46	12,46
61608	1/8"	76	152	48	13,25
61609	9/64"	76	152	50	14,82
61610	5/32"	76	152	52	15,08
61612	3/16"	102	152	124	17,05
61614	7/32"	102	152	132	17,70
61616	1/4"	102	152	142	24,00
61620	5/16"	127	152	131	32,39
61624	3/8"	127	152	142	35,80

193HXCB

Set de surubelnite cu cap hexagonal in cutie de carton



608879	2.5 - 10 / 10	884	1F	1	261,56

193HX (2.5, 3, 3.5, 4, 4.5, 5, 6, 7, 8, 10)

193HXCS

Set de surubelnite cu cap hexagonal in cutie de carton

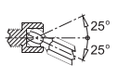


607890	2.5 - 10 / 7	743	1G	1	188,16

193HX (2.5, 3, 4, 5, 6, 8, 10)

193HXSCS

Set de surubelnite cu cap hexagonal sferic in cutie de carton





609337	2.5 - 10 / 7	739	1G	1	196,19

193HXS (2.5, 3, 4, 5, 6, 8, 10)



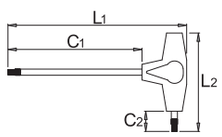
193TX

Chei cu maner in T cu profil TX

- *material:tija-crom vanadium tratata complet*
- *maner-polipropilena*
- *lama cromata, varful brunat*







		L1	C1	C2	L2				
607171	TX 6	155	125	15	61	15	4B	10	29,19
607172	TX 7	155	125	15	61	15	4B	10	29,19
607173	TX 8	155	125	15	61	15	4B	10	29,33
607174	TX 9	155	125	15	61	15	4B	10	29,33
607175	TX 10	155	125	15	61	15	4B	10	29,48
607176	TX 15	155	125	15	61	19	4B	10	33,76
607177	TX 20	155	125	15	61	22	4B	10	36,68
607178	TX 25	188	150	20	88	46	4B	10	38,58
607179	TX 27	188	150	20	88	58	4B	10	41,06
607180	TX 30	188	150	20	88	67	4B	10	47,38
607181	TX 40	223	175	25	113	118	4B	6	49,08
607182	TX 45	223	175	25	113	142	4B	6	58,33

Power-T™ Torx®

Cheie cu maner in T si profil TORX®



		L1	L2		
68606	T6	76	152	46	20,46
68607	T7	76	152	46	20,46
68608	T8	76	152	46	20,46
68609	T9	76	152	46	20,46
68610	T10	76	152	46	20,46
68615	T15	76	152	48	19,67
68620	T20	76	152	50	20,46
68625	T25	76	152	52	20,46
68627	T27	102	152	122	25,57
68630	T30	102	152	130	28,20
68640	T40	102	152	142	35,80
68645	T45	127	152	131	46,03
68650	T50	127	152	143	48,52

193TXCB

Set de surubelnite profil TX cu maner in T in cutie de carton



608880	TX 6 - TX 45 / 10	631	1F	1	392,91

193TX (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45)

193TXCS

Set de surubelnite profil TX cu maner in T in cutie de carton



607888	TX 10 - TX 45 / 7	605	1G	1	293,33

193TX (TX 10, TX 15, TX 20, TX 25, TX 30, TX 40, TX 45)

193TXMS

Set de surubelnite profil TX cu maner in T pe suport metalic



607889	TX 6 - TX 45 / 10	1890	1F	1	413,53

193TX (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45)

25461

Multitool 6 functii tip briceag



	Componenta set	
25461	6 piese T15, PH1, SL1/8" , SL3/16", SL1/4" , perforator	41,05

25651

Multitool 5 functii tip briceag



	Componenta set	
25651	5 piese SL3/16"; PH1, HX4,0 mm; HX5,0 mm; HX6,0 mm	30,69







CAPETE CHEI TUBULARE SI ACCESORII

Folosire simpla

Operarea antrenorului cu clichet se bazeaza pe un mecanism cu 75 dinti, care divide un cerc complet de 360° in sectiuni de 4.8° si garanteaza in consecinta folosirea simpla chiar si in locuri aproape inacesibile. Cu incremente mai mari de clichet, mai putine rotiri si efort, puteti obtine fiabilitate si precizie mai mari

Precizie

Impreuna cu indispensabilele antrenoare cu clichet, capetele tubulare Unior permit strangerile egale, predictibile si de precizie

Siguranta

Sistem de retentie a capului tubular cu un buton de eliberare la o apasare care permite o siguranta sporita in lucru si viteza sporita de blocare

UNIOR WGB Das Werkzeug TIVOLY

O procedura speciala de fabricatie a antrenorului cu clichet reversibil pentru capete chei tubulare

Elementele componente ale antrenorului cu clichet reversibil:

- Corpul clichetului
- Element de blocare
- Pinionul
- Butonul de actionare
- Capac
- Ejector





CLICHET

1. Debitare: otelul plat se debiteaza in forma corecta intrebuintand o presa de debitat; precizia taierii asigura un minim de material de calitate consumat.

2. Forjarea: piesele forjate sunt realizate prin forjare la cald. Forjarea la cald permite obtinerea diferitelor forme complexe si ergonomice. Prin procedeele de forjare corespunzatoare, se mentine sensul fibrajului, pe care zonele laminate le-au avut anterior.



3. Debavurarea: Eliminarea excesului de material

CARCASA CLICHETULUI

4. Prelucrarea CNC: se realizeaza pe o masina CNC folosind dispozitive speciale de prindere care asigura exactitatea dimensiunilor si functionalitatea in ceea ce priveste miscarea controlata a tuturor elementelor.



5. Tratamentul termic (calire si revenire): tratamentul termic prin calire si revenire este destinat imbunatatirii structurii de otel, pentru a oferi o mai mare duritate si tenacitate produsului, precum si celelalte proprietati fizicomecanice necesare lucrului in conditii de solicitari prescrise.



6. Sablarea: curatarea suprafetei inainte de cromare este importanta din motive de calitate si de protectie durabila a suprafetei.

7. Carcasa clichetului este placata cu un strat subtire, solid de oxid de crom, care protejeaza impotriva coroziunii si uzurii, precum si a altor deteriorari mecanice. In acelasi timp acest placaj da intregului produs - clichetul Unior - un aspect stralucitor si profesional.



PINION

8. Prelucrarea CNC se executa pe masini CNC care asigura precizia necesara. Pinionul este unul din elementele esentiale ale clichetului si dimensiunile individuale trebuiesc executate cu marje de toleranta foarte inguste.

9. Brosarea danturii este o operatiune pentru modelarea dintilor pe pinion. Geometria celor 72 de dinti garanteaza deplasarea pe ambele fete a clichetului Unior.



10. Tratament termic (calire si revenire): tratamentul termic prin calire si revenire este destinat imbunatatirii structurii otelului pentru a oferi o mai mare duritate si tenacitate produsului, precum si celelalte proprietati necesare depasirii sarcinilor solicitate de munca cu acest produs.



11. Sablarea: curatarea suprafetei dupa tratamentul termic

12. Asamblare finala: muncitorii instruiti, calificati si meticulosi care executa asamblarea finala, monteaza produsul intr-un ansamblu care asigura functionalitatea si calitatea ridicata a produsului.



Capete chei tubulare cu patrat de 1/4”	64
Capete chei tubulare cu patrat de 3/8”	70
Capete chei tubulare cu patrat de 1/2”	76
Capete chei tubulare cu patrat de 3/4”	86
Capete chei tubulare cu patrat de 1”	89
Capete chei tubulare de IMPACT 1/4”	91
Capete chei tubulare de IMPACT 3/8”	92
Capete chei tubulare de IMPACT 1/2”	96
Capete chei tubulare de IMPACT 5/8”	108
Capete chei tubulare de IMPACT 3/4”	109
Capete chei tubulare de IMPACT 1”	117
Capete chei tubulare de IMPACT 1.1/2”	124
Capete chei tubulare de IMPACT 2.1/2”	128
Capete chei tubulare de IMPACT 3.1/2”	131
Capete chei tubulare de IMPACT 5-spline	132
Capete chei tubulare de IMPACT speciale	134

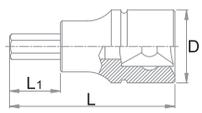


187/2HX

Capete chei tubulare cu hexagon exterior 1/4"

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*
- *in conformitate cu standardul DIN 7422 (doar pentru dimensiunile in mm)*





UNIOR

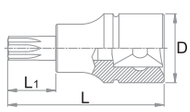
		L	L1	D				
607898	3	32	13	12	18	4B	10	**9,63**
607899	4	32	13	12	18	4B	10	**9,63**
607900	5	32	13	12	18	4B	10	**9,63**
607901	6	32	13	12	18	4B	10	**9,63**
607902	7	32	13	12	18	4B	10	**9,63**

187/2TX

Capete chei tubulare cu cap profil TX exterior 1/4"

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





UNIOR

		L	L1	D				
607903	TX 8	32	13	12	15	4B	10	**9,63**
607904	TX 10	32	13	12	15	4B	10	**9,63**
607905	TX 15	32	13	12	15	4B	10	**9,63**
607906	TX 20	32	13	12	15	4B	10	**9,63**
607907	TX 25	32	13	12	15	4B	10	**9,63**
607908	TX 27	32	13	12	15	4B	10	**9,63**
607909	TX 30	32	13	12	15	4B	10	**9,63**
607910	TX 40	32	13	12	17	4B	10	**9,63**

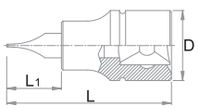


187/2SL

Capete chei tubulare cu cap surubelnita exterior 1/4"

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





UNIOR

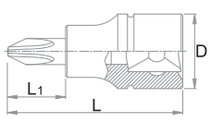
	a	b	L	L1	D				
607895	0.8	4	32	13	12	15	4B	10	**10,17**
607896	1	5.5	32	13	12	15	4B	10	**10,17**
607897	1.2	7	32	13	12	17	4B	10	**10,17**

187/2PH

Capete chei tubulare cu cap profil PH exterior 1/4"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit:otel special de scule*
- *capul cheii este tratat in intregime*





UNIOR

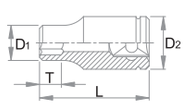
	+	L	L1	D				
607892	PH 1	32	13	12	14	4B	10	**10,17**
607893	PH 2	32	13	12	14	4B	10	**10,17**
607894	PH 3	32	13	12	15	4B	10	**10,17**

188/2 6p

Cap cheie tubulara 1/4"

- *material:crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





UNIOR

		L	D1	D2	T				
618682	3.2	25	6	12	4	15	4B	10	**6,81**
600815	4	25	6.7	12	4	15	4B	10	**6,81**
600816	4.5	25	7.3	12	4	15	4B	10	**6,81**

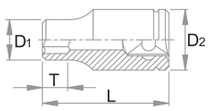
		L	D1	D2	T				
600817	5	25	8	12	5	15	4B	10	**6,81**
600818	5.5	25	8.6	12	5.5	15	4B	10	**6,81**
600819	6	25	9.2	12	6	15	4B	10	**6,81**
600820	7	25	11	12	6	15	4B	10	**6,81**
600821	8	25	12	12	7.5	15	4B	10	**7,10**
600822	9	25	13	13	7.5	15	4B	10	**7,10**
600823	10	25	14.5	14.5	9	39	4B	10	**7,64**
600824	11	25	16	15.5	10.5	39	4B	10	**7,73**
603130	12	25	17	17	10.5	39	4B	10	**8,03**
600825	13	25	18	18	10.5	39	4B	10	**8,17**
603131	14	25	19.5	19.5	13	39	4B	10	**8,17**
618683	3/16"	25	8	11.9	5	15	4B	10	**6,81**
618684	7/32"	25	8.8	11.9	5	15	4B	10	**6,81**
618685	1/4"	25	9.3	11.9	5	15	4B	10	**6,81**
618686	9/32"	25	10.5	11.9	5	15	4B	10	**6,81**
618687	5/16"	25	10.5	11.9	5	15	4B	10	**7,49**
618688	11/32"	25	10.5	13.1	5	15	4B	10	**8,12**
618689	3/8"	25	10.5	14.6	8	39	4B	10	**8,42**
618690	13/32"	25	10.5	14.6	8	39	4B	10	**7,83**
618691	7/16"	25	10.5	15.9	8	39	4B	10	**7,69**
618692	1/2"	25	10.5	17.9	10	39	4B	10	**9,49**
618693	9/16"	25	10.5	19.7	10	39	4B	10	**9,49**

188/2 12p

Capete chei tubulare 1/4", cu 12 laturi

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





UNIOR

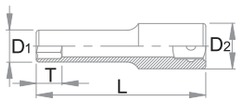
		L	D1	D2	T				
616857	4	25	6.8	11.9	5	15	4B	10	**6,81**
616858	4.5	25	7.1	11.9	5	15	4B	10	**6,81**
616859	5	25	8	11.9	5	15	4B	10	**6,81**
616860	5.5	25	8.3	11.9	5	15	4B	10	**6,81**
616861	6	25	9.3	11.9	5	15	4B	10	**6,81**
616862	7	25	10.5	11.9	5	15	4B	10	**6,81**
616863	8	25	10.5	11.9	5	15	4B	10	**7,10**
616864	9	25	10.5	13.1	8	15	4B	10	**7,10**
616865	10	25	10.5	14.5	8	39	4B	10	**7,64**
616866	11	25	10.5	15.8	8	39	4B	10	**7,73**
616867	12	25	10.5	16.8	8	39	4B	10	**8,03**
616868	13	25	10.5	17.8	10	39	4B	10	**8,17**
616869	14	25	10.5	19.6	10	39	4B	10	**8,17**
616870	3/16"	25	8	11.9	5	15	4B	10	**6,81**
616871	7/32"	25	8.3	11.9	5	15	4B	10	**6,81**
616872	1/4"	25	9.3	11.9	5	15	4B	10	**6,81**
616873	9/32"	25	10.5	11.9	5	15	4B	10	**6,81**
616874	5/16"	25	10.5	11.9	5	15	4B	10	**7,49**
616875	11/32"	25	10.5	12.9	5	15	4B	10	**8,12**
616876	3/8"	25	10.5	13.9	8	39	4B	10	**8,42**
616877	13/32"	25	10.5	14	8	39	4B	10	**7,83**
616878	7/16"	25	10.5	15.8	8	39	4B	10	**7,69**
616879	1/2"	25	10.5	17.8	10	39	4B	10	**9,49**
616880	9/16"	25	10.5	19.6	10	39	4B	10	**9,49**

188/2L6p

Capete chei tubulare 1/4", varianta lunga

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





UNIOR

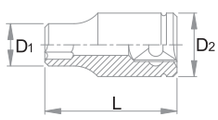
		L	D1	D2	T				
618697	3.2	50	6	12	8	20	4B	10	**12,02**
616881	4	50	6.8	11.9	5	20	4B	10	**8,90**
616882	4.5	50	7.1	11.9	5	20	4B	10	**8,90**
616883	5	50	8	11.9	5	20	4B	10	**8,90**
616884	5.5	50	8.3	11.9	5	20	4B	10	**8,90**
616885	6	50	9.3	11.9	8	20	4B	10	**8,90**
616886	7	50	10.5	11.9	8	71	4B	10	**8,90**
616887	8	50	10.5	11.9	8	71	4B	10	**8,90**
616888	9	50	10.5	13.1	11	71	4B	10	**9,78**
616889	10	50	10.5	14.5	11	71	4B	10	**10,46**
616890	11	50	10.5	15.8	11	71	4B	10	**11,67**
616891	12	50	10.5	16.8	13	71	4B	10	**11,67**
616892	13	50	10.5	17.8	13	71	4B	10	**13,33**
616893	14	50	10.5	19.6	16	71	4B	10	**14,84**

189/2

Capete chei tubulare cu profil TX interior 1/4"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*





UNIOR

		L	D2	D1				
607911	E 4	25	12	5.4	15	4B	10	**12,65**
607912	E 5	25	12	6.7	15	4B	10	**12,65**
607913	E 6	25	12	7.7	15	4B	10	**12,79**
607914	E 7	25	12	8.3	15	4B	10	**12,79**
607915	E 8	25	12	10.1	15	4B	10	**12,94**
607916	E 10	25	12	11.3	15	4B	10	**12,94**
607917	E 11	25	12	12.9	15	4B	10	**13,28**

188.1/1ABI

Antrenor cu clichet reversibil 1/4"

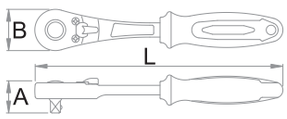
1/4"

- *material: compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *maner ergonomic rezistent bimaterial*
- *executie in concordanta cu standardul ISO 3315*

Avantaje:

- *cu 40 de dinti*
- *unghi de lucru: 9°*
- *sistem de blocare de securitate*
- *capul tubular este eliberat din clichet printr-o simpla apasare pe buton*





UNIOR

		L	A	B				
611901	1/4"	157	24.5	25	111	4B	10	**130,22**

188.1/1FBI

Antrenor cu clichet reversibil articulat 1/4"

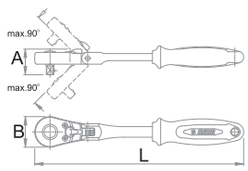
1/4"

- *material: compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *maner ergonomic rezistent bimaterial*

Avantaje:

- *cu 40 de dinti*
- *unghi de lucru: 9°*
- *antrenorul articulat permite lucrul cu o inclinare a mainii pana la max 90° cu un unghi de inclinare de 22,5°*
- *sistem de blocare de securitate*
- *capul tubular este eliberat din clichet printr-o simpla apasare pe buton*





UNIOR

		L	A	B				
618367	1/4"	180	22	25	127	4B	10	**177,36**



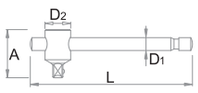
188.3/2

Antrenor cu parghie glisanta 1/4"

1/4"

- *material: crom vanadiu*
- *tratament termic total*
- *suprafata:cromata in concordanta cu standardul EN 12540*
- *executie in concordanta cu standardul ISO 3315*





UNIOR

		L	A	D1	D2				
600830	1/4"	120	24	7	14	47	4A	10	**28,07**

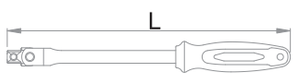
188.2/2BI

Antrenor articulat cu maner

1/4"

- *material: crom vanadiu*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *maner ergonomic rezistent bimaterial*
- *executie in concordanta cu standardul ISO 3315*





UNIOR

		L				
611902	1/4"	150	81	4B	10	**57,11**

188.11

Parti componente pentru 188.1/1ABI si 188.1/1FBI



UNIOR

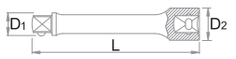
612503	1/4"	11	30	1E	1	**64,50**

188.4/2

Prelungitor 1/4"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *produs in conformitate cu standardul ISO 3316*





UNIOR

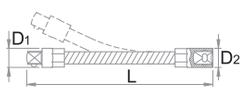
	L	D1	D2				
600826	1/4"	55	8	12	18	4B	10	**21,94**
600827	1/4"	150	8	12	50	4B	10	**24,18**

188.4/2F

Prelungitor flexibil 1/4"

- *material: crom vanadiu*
- *capul cheii este tratat in intregime*
- *acoperire cromare conform EN12540*





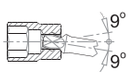
UNIOR

	L	D1	D2				
612868	1/4"	150	8.3	12	56	4B	10	**25,44**

188.4/2S

Prelungitor lung cu sfera 1/4"

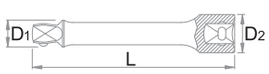
- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*



Avantaje:

- *forma capului sferic permite lucrul la un unghi de 9°*





UNIOR

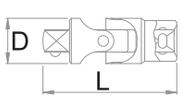
	L	D1	D2				
610911	1/4"	55	8	12	18	4B	10	**24,03**
610910	1/4"	150	8	12	51	4B	10	**26,75**

188.6/2

Intermediar cardanic 1/4"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *produs in conformitate cu standardul ISO 3316*





UNIOR

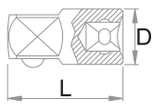
	L	D				
607821	1/4"	41	14	35	4B	10	**27,78**

188.7/2

Adaptor 1/4"-3/8"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *produs in conformitate cu standardul ISO 3316*





UNIOR

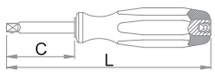
		L	D				
607976	1/4" - 3/8"	35	12	23	4B	10	**12,70**

188.8

Surubelnita cu patrat de 1/4"

- *material: tija - crom vanadiu tratata complet*
- *maner - polipropilena*
- *executie in concordanta cu standardul ISO 3315*





UNIOR

		L	C				
607349	1/4"	150	50	97	4A	10	**40,91**



188.9

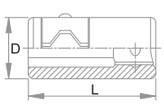
Adaptor pentru bit

- *material: otel carbon de scule*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*

Utilizare

- *pentru bituri E6, 3 C6, 3*





UNIOR

		L	D				
612867	1/4" - 1/4"	25	12	18	4B	10	**12,70**

188H

Suport metalic pentru capete chei tubulare 1/4"

- *dimensiune 165 - pentru set de 10 piese 4-13, numarul maxim de cleme 13*
- *dimensiunea 205 - 10 piese in set aceiasi dimensiune (14),numarul maxim de cleme 17*

1/4"



	L				
619088	165	43	1E	10	**5,89**
619235	205	53	1E	10	**6,08**

188H1

Set de 10 cleme pentru 188 H

1/4"



619410	11	1E	1	**4,72**

188H6P12

Set de capete chei tubulare 1/4" pe sina



	№					
622628	**188H6P12**	4 - 13 / 12	250	1E	1	**92,81**

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13), **188H**(205)

188H6LP9

Set de capete chei tubulare varianta lunga 1/4", pe sina



	№					
622629	**188H6LP9**	4 - 13 / 9	300	1E	1	**95,88**

188/2L6p (4, 5, 6, 7, 8, 9, 10, 12, 13), **188H** (205)

188BI

Trusa capete chei tubulare 1/4" in cutie metalica

- *dimensiunea cutiei : 197 x 105 x 38 mm*

1/4"



611996	4 - 13 / 16	897	1G	1	**381,04**

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150)

188BI12P16

Trusa capete chei tubulare si accesorii 1/4" in cutie metalica

- *dimensiunea cutiei : 197 x 105 x 38 mm*



617118	4 - 13 / 16	871	1G	1	**381,04**

188/2 12p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), **188.4/2** (1/4"x55, 1/4"x150), **188.3/2** (1/4"), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4")

188BI6P36

Trusa de capete chei tubulare si biti 1/4"

- *dimensiunea cutiei : 244 x 207 x 59 mm*



621407	36	813	1G	1	**528,67**

188/2 6p (5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), **6469C6,3** (3, 4, 5, 6), **6466C6,3** (PZ 1, PZ 2, PZ 3), **6463C6,3** (PH 1, PH 2, PH 3), **6460C6,3** (0.6 x 4.5, 1.2 x 6.5, 1.2 x 8.0), **6472C6,3** (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **188.1/1ABI** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **188.9** (1/4" - 1/4"), **188.8** (1/4")

188BI12P16INCH

Trusa capete chei tubulare 1/4" in cutie metalica

- *dimensiunea cutiei : 197 x 105 x 38 mm*



619414	3/16" - 9/16" / 16	861	1G	1	**381,04**

188.1/1ABI (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188/2 12p** (3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 1/2", 9/16")

188BI6P16INCH

Trusa capete chei tubulare 1/4" in cutie metalica

- *dimensiunea cutiei : 197 x 105 x 38 mm*



619413	3/16" - 9/16" / 16	920	1G	1	**381,04**

188.1/1ABI (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188/2 6p** (3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 1/2", 9/16")

188B

Trusa capete chei tubulare 1/4" in cutie metalica

- *dimensiunea cutiei : 321 x 198 x 54 mm*



615150	44	1990	1G	1	**744,66**

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), **188.1/1ABI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **187/2PH** (PH 1, PH 2, PH 3), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2HX** (3, 4, 5, 6, 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **189/2** (E 4, E 5, E 6, E 7, E 8, E 10, E 11)

188C

Trusa capete chei tubulare 1/4" in cutie metalica

- *dimensiunea cutiei : 321 x 198 x 54 mm*



615151	33	1850	1G	1	**614,53**

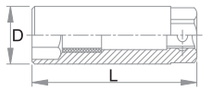
188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), **188.1/1ABI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **187/2PH** (PH 1, PH 2, PH 3), **187/2HX** (3, 4, 5, 6, 7), **187/2TX** (TX 8, TX 10, TX 15, TX 25, TX 27, TX 30, TX 40)

186.4/2

Cheie de bujii cu patrat de 3/8"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*





		D	L					
603193	16	22	63	19	68	4B	10	**18,73**
620820	18	24.7	63	22	68	4B	10	**20,14**
603192	19	26	63	22	68	4B	10	**21,79**
600776	21	27	66	19	68	4B	10	**34,68**

186.4/2A

Cheie de bujii 3/8"

- *material: crom molibden*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*

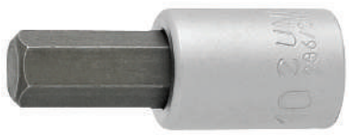


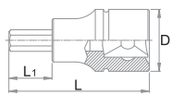
		D	L					
622513	14	18	63	17	58	4B	10	**37,65**

236/2HX

Capete chei tubulare cu profil hexagonal exterior 3/8"

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*
- *conform cu standardul DIN 7422 (doar pentru dimensiunile in mm)*





UNIOR

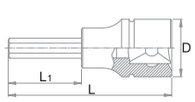
		L	L1	D				
612082	4	48	22	18	39	4B	10	25,83
612083	5	48	22	18	39	4B	10	25,83
612084	6	48	22	18	41	4B	10	25,83
612085	8	48	22	18	45	4B	10	25,83
612086	10	48	22	18	56	4B	10	27,10
617662	1/8"	48	22	18	39	4B	10	24,95
617663	9/64"	48	22	18	39	4B	10	24,95
617664	5/32"	48	22	18	39	4B	10	24,95
617665	3/16"	48	22	18	39	4B	10	24,95
617666	7/32"	48	22	18	41	4B	10	24,95
617667	1/4"	48	22	18	41	4B	10	24,95
617668	5/16"	48	22	18	45	4B	10	24,95
617669	3/8"	48	22	18	56	4B	10	26,17

236/2HXL

Capete chei tubulare cu profil hexagonal exterior lungi 3/8"

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*
- *conform cu standardul DIN 7422 (doar pentru dimensiunile in mm)*





UNIOR

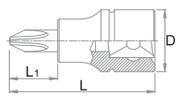
		L	L1	D				
612087	4	92	66	18	65	4B	10	30,45
612088	5	92	66	18	65	4B	10	30,45
612089	6	92	66	18	65	4B	10	30,45
612090	8	92	66	18	65	4B	10	30,45
612091	10	92	66	18	65	4B	10	32,01

236/2PH

Capete chei tubulare cu profil PH exterior 3/8"

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





UNIOR

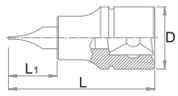
		D	L	L1				
612093	PH 2	18	48	22	39	4B	10	34,88
612094	PH 3	18	48	22	39	4B	10	34,88

236/2SL

Capete chei tubulare cu profil de surubelnita exterior 3/8"

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





UNIOR

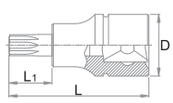
		D	L	L1				
612098	5.5	18	48	22	42	4B	10	39,94
612099	8	18	48	22	45	4B	10	39,94
612100	10	18	48	22	55	4B	10	39,94

236/2TX

Capete chei tubulare cu profil TX exterior 3/8"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit:otel special de scule*
- *capul cheii este tratat in intregime*





UNIOR

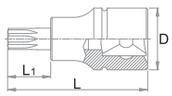
		D	L	L1				
612101	TX 15	18	48	22	39	4B	10	34,29
612102	TX 20	18	48	22	39	4B	10	34,29
612103	TX 25	18	48	22	39	4B	10	34,29
612104	TX 27	18	48	22	39	4B	10	35,90
612105	TX 30	18	48	22	39	4B	10	35,90
612106	TX 40	18	48	22	40	4B	10	37,60

236/2ZX

Capete chei tubulare cu profil ZX exterior 3/8"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit:otel special de scule*
- *capul cheii este tratat in intregime*
- *in conformitate cu standardul DIN 2324*





UNIOR

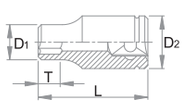
		L	L1	D				
612113	M5	48	22	18	37	4B	10	39,94
612114	M6	48	22	18	39	4B	10	39,94
612115	M8	48	22	18	46	4B	10	39,94
612116	M10	48	22	18	54	4B	10	45,29

238/1 6p

Capete chei tubulare 3/8"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





UNIOR

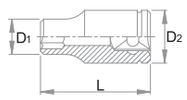
		L	D1	D2	T				
605322	6	28	9.9	16.9	4	28	4B	10	10,70
605323	7	28	10.6	16.9	4	28	4B	10	10,70
605324	8	28	11.8	16.9	5	28	4B	10	10,70
605325	9	28	13.2	16.9	5	29	4B	10	10,70
605326	10	28	14.5	16.9	6	29	4B	10	10,70
605327	11	28	15.7	16.9	7	30	4B	10	10,70
605328	12	28	16.9	16.9	8	31	4B	10	10,70
605329	13	28	17.9	17.9	8	35	4B	10	10,70
605330	14	28	19.6	19.6	10	41	4B	10	11,58
605331	15	28	21	21	10	44	4B	10	13,43
605332	16	30	21.8	21.8	10	52	4B	10	13,72
605333	17	30	23.4	23.4	10	57	4B	10	15,23
605334	18	30	24.7	21	12	57	4B	10	15,23
605335	19	30	25.8	23	12	59	4B	10	15,23
605336	20	32	27.1	24	12	73	4B	10	17,27
605337	21	32	27.8	25	12	73	4B	10	17,71
605338	22	32	29.5	26	14	88	4B	10	19,07

237/1

Capete chei tubulare cu profil TX interior 3/8"

- *material: crom vanadium*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*





UNIOR

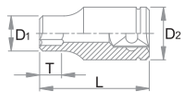
		L	L1	D2	D1				
612121	E 8	28	11	16.8	12	30	4B	10	20,92
612122	E 10	28	11	16.8	13.5	32	4B	10	20,92
612123	E 11	28	11	16.8	14	30	4B	10	20,92
612124	E 12	28	11	16.8	15	32	4B	10	20,92
612125	E 14	28	11	17.8	17	37	4B	10	20,92
612126	E 16	28	11	19.8	19	45	4B	10	20,92

238/1 12p

Capete chei tubulare 3/8" cu 12 laturi

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





UNIOR

		L	D1	D2	T				
617122	6	28	10.6	16.9	4	28	4B	10	10,70
616905	7	28	10.6	16.9	4	28	4B	10	10,70
616906	8	28	11.8	16.9	5	29	4B	10	10,70
616907	9	28	13.2	16.9	5	29	4B	10	10,70
616908	10	28	14.5	16.9	6	30	4B	10	10,70
616909	11	28	15.7	16.9	7	29	4B	10	10,70
616910	12	28	16.9	16.9	8	28	4B	10	10,70
616911	13	28	17.9	17.9	8	32	4B	10	10,70
616912	14	28	19.6	19.6	10	39	4B	10	11,58
616913	15	28	21	21	10	46	4B	10	13,43
616914	16	30	21.8	21.8	10	48	4B	10	13,72
616915	17	30	23.4	23.4	10	49	4B	10	15,23
616916	18	30	24.7	21	12	65	4B	10	15,23
616917	19	30	25.8	23	12	73	4B	10	15,23
616918	20	32	27.1	24	12	86	4B	10	17,27
616919	21	32	27.8	25	12	88	4B	10	17,71
616920	22	32	29.5	26	14	105	4B	10	19,07
616921	23	32	31.5	27	14	120	4B	10	20,67
616922	24	32	31.8	28	14	112	4B	10	27,97
616923	1/4"	28	10.2	16.7	8	28	4B	10	8,80
616924	5/16"	28	11.8	16.7	8	29	4B	10	8,80
616925	3/8"	28	14.5	16.7	8	30	4B	10	8,80

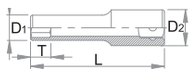
		L	D1	D2	T				
616926	7/16"	28	15.7	16.7	8	29	4B	10	**8,80**
616927	1/2"	28	15.7	17.7	8	32	4B	10	**8,80**
616928	9/16"	28	15.7	19.5	12	39	4B	10	**9,87**
616929	5/8"	30	15.7	21.7	12	48	4B	10	**10,90**
616930	11/16"	30	15.7	23.3	12	59	4B	10	**12,31**
616931	3/4"	30	25.7	23	14	73	4B	10	**16,59**
616932	13/16"	32	27.7	25	14	88	4B	10	**21,84**
616933	7/8"	32	29.5	26	14	105	4B	10	**23,98**
616934	15/16"	32	31.7	28	14	112	4B	10	**25,39**
616935	1"	32	33.7	30	14	132	4B	10	**33,13**

238/1L6p

Capete chei tubulare 3/8", varianta lunga

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





UNIOR

		L	D1	D2	T				
612036	8	63	11.8	16.8	9	55	4B	10	**21,50**
612037	9	63	13.2	16.8	9	58	4B	10	**21,50**
612038	10	63	14.5	16.8	9	61	4B	10	**21,89**
612039	11	63	15.7	16.8	12	67	4B	10	**21,89**
612040	12	63	16.8	16	12	75	4B	10	**21,89**
612041	13	63	17.8	16.5	12	81	4B	10	**21,89**
612042	14	63	19.55	17	15	91	4B	10	**21,89**
612043	15	63	20.75	18	15	117	4B	10	**22,23**
612044	16	63	21.75	19	15	107	4B	10	**22,91**
612045	17	63	23.3	20	15	128	4B	10	**23,93**
612046	18	63	24.5	21	18	112	4B	10	**27,39**
612047	19	63	25.7	23	18	147	4B	10	**28,36**
612048	20	63	27	24	18	157	4B	10	**29,14**
612049	21	63	27.7	25	18	165	4B	10	**30,01**
612050	22	63	29.5	26	21	200	4B	10	**32,79**

11501420002

Cap tubular universal 3/8" cu pini

- *capacitate de prindere 7-19 mm*

3/8"





TIVOLY

		A	
11501420002	3/8"	30	**252,60**

238.1/1ABI

Antrenor cu clichet reversibil 3/8"

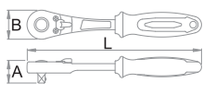
- *material: compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *maner ergonomic rezistent bimaterial*
- *executie in concordanta cu standardul ISO 3315*

3/8"

Avantaje:

- *75 de dinti*
- *unghi de lucru: 4,8°*
- *sistem de blocare de securitate*
- *capul tubular este eliberat din clichet printr-o simpla apasare pe buton*





UNIOR

		L	A	B				
612501	3/8"	200	30	35	239	4B	10	**159,85**

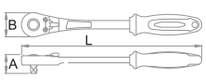
238.1/1ALBI

Antrenor cu clichet reversibil 3/8" varianta lunga

- *material: compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *maner ergonomic rezistent bimaterial*
- *75 de dinti*
- *executie in concordanta cu standardul ISO 3315*

3/8"





UNIOR

		L	A	B				
617631	3/8"	260	30	35	274	4B	10	**158,49**

238.1/1FBI

Antrenor cu clichet reversibil articulat 3/8"

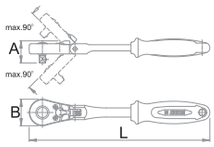
- *material: compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *maner ergonomic rezistent bimaterial*

Avantaje:

- *75 de dinti*
- *unghi de lucru: 4,8°*
- *antrenorul articulat permite lucrul cu o inclinare a mainii pana la max 90° cu un unghi de inclinare de 22,5°*
- *sistem de blocare de securitate*
- *capul tubular este eliberat din clichet printr-o simpla apasare pe buton*

3/8"





UNIOR

		L	A	B				
618368	3/8"	260	30	35	322	4B	10	**234,13**

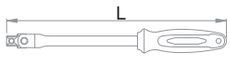
238.2/1BI

Antrenor articulat cu maner bimaterial 3/8"

- *material: crom molibden*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *maner ergonomic rezistent bimaterial*
- *executie in concordanta cu standardul ISO 3315*

3/8"





UNIOR

		L				
612502	3/8"	210	188	4B	10	**64,65**

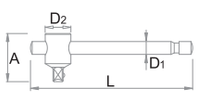
238.3/1

Antrenor cu parghie glisanta 3/8"

- *material: crom vanadiu*
- *tratament termic total*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *executie in concordanta cu standardul ISO 3315*

3/8"





UNIOR

		L	A	D1	D2				
605341	3/8"	165	34	10.4	19	149	4A	10	**36,73**

238.11

Parti componente pentru 238.1A BI



UNIOR

612505	8	66	1E	1	**65,67**

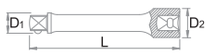
238.4/2

Prelungitor 3/8"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *conform cu standardul ISO 3316*

3/8"





UNIOR

		L	D1	D2				
600777	3/8"	45	12.5	18	48	4B	10	**20,82**
600778	3/8"	75	12.5	18	76	4B	10	**31,38**

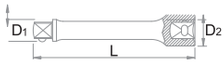
238.4/1

Prelungitor lung 3/8"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *conform cu standardul ISO 3316*

3/8"





UNIOR

		L	D1	D2				
605343	3/8"	125	12.5	18	121	4B	10	**37,75**
605342	3/8"	250	12.5	18	233	4B	10	**43,00**

238.4/1S

Prelungitor lung cu cap sferic 3/8"

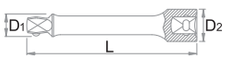
- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*

Avantaje:

- *forma capului sferic permite lucrul la un unghi de 9°*

3/8"





UNIOR

		L	D1	D2				
610913	3/8"	125	12.5	18	120	4B	10	**29,33**

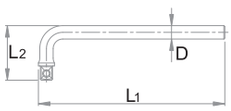
238.5/2

Antrenor cotit 3/8"

- *material: crom vanadiu*
- *forjat, tratat complet*
- *acoperire cromare conform EN12540*
- *executie in concordanta cu standardul ISO 3315*

3/8"





UNIOR

		L1	L2	D				
611962	3/8"	200	45	10	145	4A	10	**32,74**

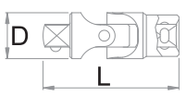
238.6/1

Intermediar cardanic 3/8"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *conform cu standardul ISO 3316*

3/8"
3/8"





UNIOR

		L	D				
605344	3/8"	54	19	72	4B	10	**33,27**

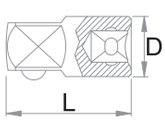
238.7/1

Adaptor 3/8"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *conform cu standardul ISO 3316*

3/8"
1/4"
1/2"





UNIOR

		D	L				
607977	3/8" - 1/4"	18	32	38	4B	10	**10,56**



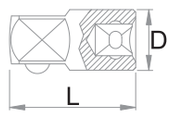
238.7/2

Adaptor 3/8"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *condorm cu standardul ISO 3316*

3/8"
1/2"





UNIOR

		D	L				
605345	3/8" - 1/2"	17	38	38	4B	10	**13,18**

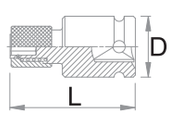
238.12

Adaptor de biti cu schimbare rapida 3/8"

- *material: otel carbon de scule*
- *forjata, calire si revenire totala*
- *acoperire prin brunare*

3/8"





UNIOR

		L	D				
620855	3/8" - 1/4"	33	19	56	1E	10	**72,53**

238H

Suport pentru capete chei tubulare 3/8"

- *dimensiunea 260 - pentru set de 10 piese de la 6-22,numarul maxim de cleme 15*
- *dimensiunea 345 - 10 piese de aceiasi dimensiune (22), numarul maxim de cleme 20*

3/8"



UNIOR

	L				
619089	260	69	1E	10	**7,49**
619236	345	84	1E	10	**7,73**

238H1

Set de 10 cleme pentru art. 238H

3/8"



UNIOR

619411	16	1E	1	**5.50**

239A

Trusa capete chei tubulare 3/8" in cutie metalica

- *dimensiunea cutiei : 321 x 198 x 54 mm*



612509	6 - 22 / 24	2935	1G	1	**731,77**

238/1 6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22),
238.3/1 (3/8"), **238.4/1** (3/8" x 250, 3/8" x 125),
238.6/1 (3/8"), **238.1/1ABI** (3/8"),
238.2/1BI (3/8"), **238.7/2** (3/8" - 1/2")

239A12P24

Trusa capete chei tubulare si accesorii 3/8" in cutie metalica

- *dimensiunea cutiei : 321 x 198 x 54 mm*



617117	6 - 22 / 24	2920	1G	1	**731,77**

238/1 12p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22),
238.3/1 (3/8"), **238.4/1** (3/8" x 250, 3/8" x 125),
238.6/1 (3/8"), **238.1/1ABI** (3/8"),
238.2/1BI (3/8"), **238.7/2** (3/8" - 1/2")

239B

Trusa capete chei tubulare 3/8" in cutie metalica

- *dimensiunea cutiei : 321 x 198 x 54 mm*



612510	3/8" - 7/8" / 16	3670	1G	1	**629,42**

238.3/1 (3/8"), **238.4/1** (3/8" x 250, 3/8" x 125),
238.6/1 (3/8"), **238/1 6p** (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"), **238.1/1ABI** (3/8"), **238.2/1BI** (3/8"),
238.7/2 (3/8" - 1/2")

239C

Trusa capete chei tubulare 3/8" in cutie metalica

- *dimensiunea cutiei : 321 x 198 x 54 mm*



613072	30	2930	1G	1	**906,94**

238/1 6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22),
238.3/1 (3/8"), **238.4/1** (3/8" x 250, 3/8" x 125),
238.6/1 (3/8"), **236/2HX** (4, 5, 6, 8), **236/2PH** (PH 2, PH 3),
236/2SL (5.5, 8), **238.1/1ABI** (3/8")

239D

Trusa capete chei tubulare 3/8" in cutie metalica

- *dimensiunea cutiei : 321 x 198 x 54 mm*



613073	30	3190	1G	1	**916,91**

238/1 6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19),
238.3/1 (3/8"), **238.4/1** (3/8" x 250, 3/8" x 125),
238.6/1 (3/8"), **238.5/2** (3/8"), **236/2HX** (4, 5, 6, 8, 10),
236/2HXL (4, 5, 6, 8, 10), **238.1/1ABI** (3/8")

238H6P16

Set de capete chei tubulare 3/8", pe sina



622630	7 - 22 / 16	700	1E	1	**221,24**

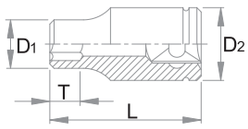
238/1 6p (7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **238H** (345)

190/1 6p

Capete chei tubulare 1/2"

- *material: crom molibden*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





UNIOR

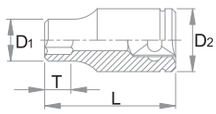
		L	D1	D2	T				
605307	8	38	13.2	22.9	12	55	4B	10	15,91
610155	9	38	13.9	22.9	12	55	4B	10	15,91
600851	10	38	15	22.9	12	55	4B	10	15,91
600852	11	38	16.3	22.9	12	55	4B	10	15,91
600853	12	38	17.9	22.9	12	65	4B	10	15,91
600854	13	38	18.8	22.9	12	65	4B	10	15,91
600855	14	38	19.7	22.9	12	65	4B	10	15,91
600856	15	38	20.4	22.9	12	65	4B	10	15,91
600857	16	38	22.9	21.5	12	85	4B	10	15,91
600858	17	38	24.3	22	12	95	4B	10	20,48
600859	18	38	25.5	23	12	100	4B	10	20,48
600860	19	38	26.8	24	14	105	4B	10	20,48
600861	20	38	28.1	24	14	115	4B	10	21,31
600862	21	38	29.3	25	14	128	4B	10	21,31
600863	22	38	30.4	25	14	142	4B	10	21,65
600864	23	40	31.7	26	14	147	4B	10	24,13
600865	24	42	33.1	28	16	165	4B	10	24,13
600866	25	42	34.2	29	16	126	4B	10	24,13
600867	26	42	35.3	30	16	126	4B	10	24,47
600868	27	43	37	30	18	180	4B	10	26,56
600869	28	43	38	31	20	185	4B	10	26,56
610156	29	43	39	32	20	185	4B	10	28,80
600871	30	46	40.7	34	22	195	4B	10	29,67
600872	32	46	43.2	36	22	237	4B	10	29,67
610105	5/16"	38	13.2	22.9	12	55	4B	10	16,69
610106	3/8"	38	15	22.9	12	55	4B	10	16,69
610107	7/16"	38	16.3	22.9	12	55	4B	10	16,69
610108	1/2"	38	18.8	22.9	12	65	4B	10	16,69
610109	9/16"	38	20.4	22.9	12	65	4B	10	16,69
610110	5/8"	38	22.9	21.5	12	85	4B	10	16,69
610111	11/16"	38	25.5	23	12	95	4B	10	21,45
610112	3/4"	38	26.8	24	14	105	4B	10	21,45
610113	13/16"	38	29.3	25	14	128	4B	10	22,43
610114	7/8"	40	31.7	26	14	142	4B	10	22,43
610115	15/16"	42	33.1	28	16	165	4B	10	25,39
610116	1"	42	35.3	30	16	126	4B	10	25,78
610117	1.1/16"	43	37	30	18	180	4B	10	27,87
610118	1.1/8"	43	39	32	20	185	4B	10	27,87
610119	1.3/16"	46	40.7	34	22	237	4B	10	30,11
610120	1.1/4"	46	43.2	36	22	55	4B	10	30,11

190/1 12p

Capete chei tubulare 1/2" cu 12 laturi

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





UNIOR

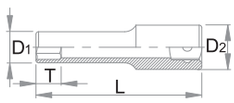
		D1	D2	L	T				
603812	10	15	22.9	38	12	55	4B	10	15,91
603813	11	16.3	22.9	38	12	55	4B	10	15,91
603814	12	17.9	22.9	38	12	65	4B	10	15,91
603815	13	18.8	22.9	38	12	65	4B	10	15,91
603816	14	19.7	22.9	38	12	65	4B	10	15,91
603817	15	20.4	22.9	38	12	65	4B	10	15,91
603818	16	22.9	21.5	38	12	65	4B	10	15,91
603819	17	24.3	22	38	12	65	4B	10	20,48
603820	18	25.5	23	38	12	100	4B	10	20,48
603821	19	26.8	24	38	14	105	4B	10	20,48
603822	20	28.1	24	38	14	115	4B	10	21,31
603823	21	29.3	25	38	14	128	4B	10	21,31
603824	22	30.4	25	38	14	142	4B	10	21,65
603825	23	31.7	26	40	14	147	4B	10	24,13
603826	24	33.1	28	42	16	165	4B	10	24,13
603827	27	37	30	43	18	180	4B	10	26,56
603828	30	40.7	34	46	22	195	4B	10	29,67
603829	32	43.2	36	46	22	237	4B	10	29,67
621722	36	48	42	46	22	245	4B	10	44,46
609366	3/8"	15	22.9	38	12	55	4B	10	17,66
609367	7/16"	16.3	22.9	38	12	55	4B	10	17,66
609368	1/2"	18.8	22.9	38	12	65	4B	10	19,02
609369	9/16"	20.4	22.9	38	12	65	4B	10	19,02
609370	19/32"	20.4	20.7	38	12	65	4B	10	19,60
609371	5/8"	22.9	21.5	38	12	65	4B	10	19,60
609372	11/16"	25.5	23	38	12	65	4B	10	19,60
609373	3/4"	26.8	24	38	14	105	4B	10	21,99
609374	25/32"	27.9	24	38	14	115	4B	10	26,22
609375	13/16"	29.3	25	38	14	128	4B	10	26,22
609376	7/8"	31.7	26	40	14	142	4B	10	23,64
609377	15/16"	33.1	28	42	16	165	4B	10	25,39
609378	1"	35.3	30	42	16	170	4B	10	26,56
609379	1.1/16"	37	30	43	18	180	4B	10	28,94
609380	1.1/8"	39	32	43	20	190	4B	10	32,01
609381	1.3/16"	40.7	34	46	22	195	4B	10	34,15
609382	1.1/4"	43.2	36	46	22	237	4B	10	35,66

190/1L12p

Capete chei tubulare varianta lunga 1/2" cu 12 laturi

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





UNIOR

		D1	D2	L	T				
610762	10	15	22	77	12	85	4B	5	**33,91**
610763	11	16.3	22	77	12	110	4B	5	**33,91**
610764	12	17.6	22	77	12	100	4B	5	**33,91**
610765	13	18.8	22	77	12	107	4B	5	**33,91**
610766	14	20.4	22	77	15	112	4B	5	**33,91**
610767	15	21.6	20.7	77	15	107	4B	5	**33,91**
610768	16	22.9	21.5	77	15	121	4B	5	**33,91**
610769	17	24	22	77	15	130	4B	5	**34,93**
610770	18	25.4	23	77	18	150	4B	5	**34,93**
610771	19	26	21	77	18	140	4B	5	**34,93**
610772	20	27.9	24	77	18	176	4B	5	**36,39**
610773	21	28	25	77	18	166	4B	5	**36,39**
610774	22	30	26	77	21	197	4B	5	**37,02**
610775	23	31.6	27	77	21	226	4B	5	**41,20**
610776	24	32	28	77	24	223	4B	5	**41,20**
610777	27	36	30	77	27	277	4B	5	**55,46**
610778	30	40	34	77	30	317	4B	5	**59,83**
610779	32	42	36	77	33	335	4B	5	**59,83**

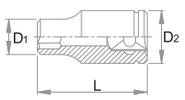


191/1

Capete chei tubulare cu profil TX interior 1/2"

- *material:crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*





UNIOR

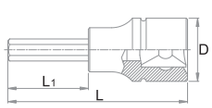
		D2	D1	L				
607141	E 10	22	14	38	58	4B	10	**25,00**
607142	E 11	22	15	38	52	4B	10	**25,00**
607143	E 12	22	15	38	55	4B	10	**25,00**
607144	E 14	22	17	38	57	4B	10	**25,00**
607145	E 16	22	19	38	62	4B	10	**25,00**
607146	E 18	22	21	38	78	4B	10	**26,71**
607147	E 20	26	23	40	95	4B	10	**28,21**
607148	E 22	26	25.3	40	105	4B	10	**29,72**
607149	E 24	28	27.3	40	119	4B	10	**32,35**

192/2HXL

Capete chei tubulare cu profil hexagonal exterior lungi 1/2"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit:otel special de scule*
- *capul cheii este tratat in intregime*
- *produs conform standardului DIN 7422 (doar pentru dimensiunile in mm)*





UNIOR

		D	L	L1				
603380	5	22.9	100	64	67	4B	10	**25,64**
619803	5	22.9	203	167	85	4B	10	**27,29**
603381	6	22.9	100	64	67	4B	10	**25,64**
619805	6	22.9	183	147	95	4B	10	**27,29**
603383	7	22.9	100	64	67	4B	10	**26,37**
603384	8	22.9	100	64	67	4B	10	**26,37**
619806	8	22.9	143	107	115	4B	10	**28,46**
603386	10	22.9	100	64	117	4B	10	**27,39**
619807	10	22.9	163	127	163	4B	10	**32,06**
603455	12	22.9	100	64	139	4B	10	**27,39**
619415	14	22.9	100	64	165	4B	10	**27,58**

191MB1

Trusa capete chei tubulare cu profil TX interior 1/2" in cutie metalica

- *Dimensiunea cutiei : 197 x 105 x 38*



607314	9	1000	1G	1	281,02

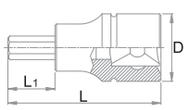
191/1 (E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24)

192/2HX

Capete chei tubulare cu profil hexagonal exterior 1/2"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit:otel special de scule*
- *capul cheii este tratat in intregime*
- *dimensiunile 17,19,22, 24 sunt utilizate pentru schimbarea și montarea roților fata*
- *produs conform standardului DIN 7422 (doar pentru dimensiunile in mm)*





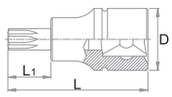
		D	L	L1				
600978	4	23	60	24	60	4B	10	21,55
603420	5	23	60	24	60	4B	10	21,55
603421	6	23	60	24	60	4B	10	21,55
603422	7	23	60	24	75	4B	10	22,13
603423	8	23	60	24	81	4B	10	22,13
605923	9	23	60	24	85	4B	10	22,96
603424	10	23	60	24	95	4B	10	22,96
603425	12	23	60	24	116	4B	10	23,69
624033	13	23	60	24	120	4B	10	29,58
603426	14	23	60	24	168	4B	10	30,74
624034	15	23	60	24	170	4B	10	32,98
603427	17	24	60	20	187	4B	10	33,61
603428	19	26.5	60	20	195	4B	10	35,75
623141	22	26,5	60	20	196	4B	5	40,38
623142	24	26,5	60	20	210	4B	5	41,20
619894	3/16"	22.9	40	24	60	4B	10	21,55
619895	7/32"	22.9	40	24	60	4B	10	21,55
619896	1/4"	22.9	40	24	60	4B	10	21,55
619898	5/16"	22.9	40	24	81	4B	10	22,13
619899	3/8"	22.9	40	24	95	4B	10	22,96
619900	1/2"	22.9	40	24	116	4B	10	22,96
619901	9/16"	22.9	40	24	168	4B	10	23,69
619902	5/8"	22.9	40	24	187	4B	10	30,74
619904	3/4"	26.8	40	21	195	4B	10	35,75

192/2TX

Capete chei tubulare cu profil TX exterior 1/2"

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





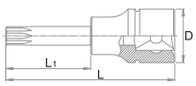
		D	L	L1				
605562	TX 20	22.9	52	16	71	4B	10	29,58
605563	TX 25	22.9	52	16	73	4B	10	29,58
605564	TX 27	22.9	52	16	73	4B	10	29,58
605565	TX 30	22.9	52	16	75	4B	10	30,11
605566	TX 40	22.9	52	16	77	4B	10	32,01
605567	TX 45	22.9	52	16	78	4B	10	32,01
605568	TX 50	22.9	52	16	80	4B	10	33,22
605569	TX 55	22.9	57	21	85	4B	10	39,79
605570	TX 60	22.9	57	21	96	4B	10	39,79

192/2TXL

Capete chei tubulare cu profil TX exterior lungi 1/2"

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





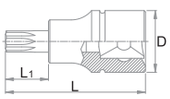
		D	L	L1				
612422	TX 20	22.9	100	64	76	4B	10	36,58
612423	TX 25	22.9	100	64	86	4B	10	36,58
612424	TX 27	22.9	100	64	86	4B	10	36,58
612425	TX 30	22.9	100	64	86	4B	10	36,73
612426	TX 40	22.9	100	64	90	4B	10	39,55
612427	TX 45	22.9	100	64	92	4B	10	39,55
612428	TX 50	22.9	100	64	94	4B	10	41,20
612429	TX 55	22.9	100	64	100	4B	10	49,28
612430	TX 60	22.9	100	64	110	4B	10	49,28
619857	TX 70	24.3	105	65	253	4B	10	47,28
619858	TX 80	24.3	105	65	261	4B	10	56,57
619859	TX 90	26,8	105	65	363	4B	10	64,65
619860	TX 100	26.8	105	65	325	4B	10	70,92

192/2ZX

Capete chei tubulare cu profil ZX exterior 1/2"

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





UNIOR

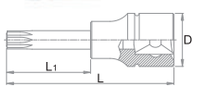
		D	L	L1				
612165	M 5	22.9	52	16	72	4B	10	**29,77**
612166	M 6	22.9	52	16	70	4B	10	**29,77**
612167	M 8	22.9	52	16	80	4B	10	**29,77**
612168	M 10	22.9	57	21	84	4B	10	**32,69**
612169	M 12	22.9	57	21	90	4B	10	**32,69**
612170	M 14	22.9	57	21	97	4B	10	**35,66**
620257	M 16	22.9	57	21	155	4B	10	**38,82**

192/2ZXL

Capete chei tubulare cu profil ZX exterior lungi 1/2"

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





UNIOR

		D	L	L1				
612171	M 6	22.9	100	64	85	4B	10	**34,10**
612172	M 8	22.9	100	64	91	4B	10	**34,10**
612173	M 10	22.9	100	64	110	4B	10	**36,29**
612174	M 12	22.9	100	64	123	4B	10	**38,23**
619845	M 14	22.9	100	64	143	4B	10	**38,62**
620258	M 16	22.9	100	64	235	4B	10	**41,98**

192/12

Trusa capete chei tubulare cu profil TX 1/2" in cutie metalica

- *Dimensiunea cutiei : 197 x 105 x 38 mm*



UNIOR

603657	9	1010	1G	1	**326,85**

192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60)

192/14INCH

Trusa capete chei tubulare cu profil hexagonal 1/2" in cutie metalica

- *dimensiunea cutiei : 197 x 105 x 38 mm*



UNIOR

621759	3/16" - 3/4" / 9	1250	1G	1	**253,73**

192/2HX (3/16", 7/32", 1/4", 5/16", 3/8", 1/2", 9/16", 5/8", 3/4")

192/15

Trusa de capete chei tubulare cu profil ZX 1/2" in cutie de plastic

- *dimensiunea cutiei : 197 x 167 x 35 mm*



UNIOR

617125	10	1030	1G	1	**333,46**

192/2ZX (M 5, M 6, M 8, M 10, M 12, M 14), **192/2ZXL** (M 6, M 8, M 10, M 12)

192/16

Trusa de capete chei tubulare cu profil hexagonal lungi 1/2" in cutie de plastic

- *dimensiunea cutiei : 197 x 167 x 35 mm*



UNIOR

619416	5 - 100 / 7	893	1G	1	**269,25**

192/2HXL (5 x 100, 6 x 100, 7 x 100, 8 x 100, 10 x 100, 12 x 100, 14 x 100)

192/17

Trusa de capete chei tubulare cu profil TX 1/2" in cutie de plastic

- *dimensiunea cutiei : 197 x 167 x 35 mm*



619417	TX 20 - TX 50 / 7	752	1G	1	**349,76**

192/2TXL (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50)

192/18

Trusa de adaptoare in cutie metalica

- *dimensiunea cutiei : 197 x 105 x 38 mm*



619418	1/4" - 3/4" / 6	888	1G	1	**236,07**

188.7/2 (1/4" - 3/8"), **238.7/1** (3/8" - 1/4"), **238.7/2** (3/8" - 1/2"),
190.7/2 (1/2" x 3/8", 1/2" x 3/4"), **197.7/1** (3/4" - 1/2")

192/14

Trusa capete chei tubulare cu profil hexagonal 1/2" in cutie metalica

- *dimensiunea cutiei : 197 x 105 x 38 mm*



607064	9	1170	1G	1	**253,78**

192/2HX (5, 6, 7, 8, 9, 10, 12, 14, 17)

192/19

Trusa de capete chei tubulare cu profil Ribe exterior in cutie de tabla

- *dimensiunea cutiei : 197 x 105 x 38 mm*

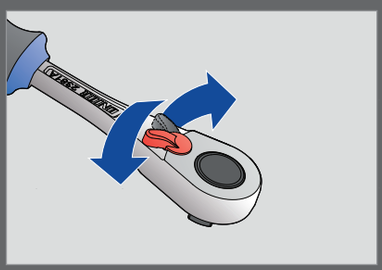


622624	M 5 - M 14 / 9	1000	1F	1	**362,36**

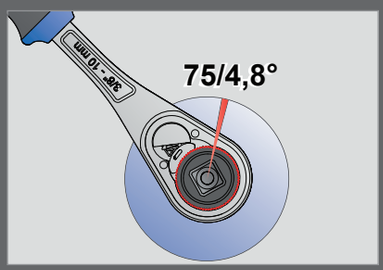
192/2R (M 5, M 6, M 7, M 8, M 9, M 10, M 12, M 13, M 14)



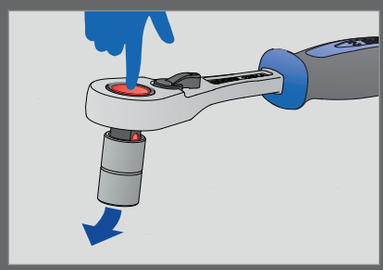
190.1/1ABI, 190.1/1FBI



Clichet: lucreaza in ambele sensuri, sensul de rotatie se schimba din buton.



75 de dinti. Cu cat mai multi dinti, cu atat mai mare este unghiul de rotatie, ceea ce inseamna ca poate fi folosit in spatii extrem de inguste. Mai multi dinti si un mecanism imbunatatit duce de asemenea la rezistenta cheii cu clichet, care depaseste standard-ul DIN prescris cu mai mult de 30%.



Sistem de blocare de securitate.
Sistemul de blocare previne capul tubular sa iasa din cheie.

190.1/1ABI

Antrenor cu clichet reversibil 1/2"

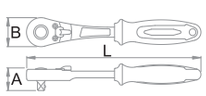
1/2"

- *material: compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *maner ergonomic rezistent bimaterial*
- *executie in concordanta cu standardul ISO 3315*

Avantaje:

- *75 de dinti*
- *unghi de lucru: 4,8°*
- *sistem de blocare de securitate*
- *capul tubular este eliberat din clichet printr-o simpla apasare pe buton*





UNIOR

		L	A	B				
611782	1/2"	260	36	45	423	4B	10	174,64

190.1/1FBI

Antrenor cu clichet reversibil articulat 1/2"

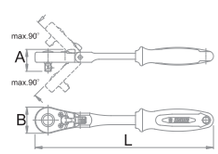
1/2"

- *material: compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *maner ergonomic rezistent bimaterial*
- *suprafata: cromata in concordanta cu standardul EN 12540*

Avantaje:

- *75 de dinti*
- *unghi de lucru: 4,8°*
- *antrenorul articulat permite lucrul cu o inclinare a mainii pana la max 90° cu un unghi de inclinare de 22,5°*
- *sistem de blocare de securitate*
- *capul tubular este eliberat din clichet printr-o simpla apasare pe buton*





UNIOR

		L	A	B				
618369	1/2"	320	36	40	598	4B	10	287,05

190.11

Parti componente pentru 190.1A BI



UNIOR

612504	12	106	1E	1	68,69

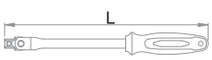
190.2/1BI

Antrenor articulat cu maner 1/2"

1/2"

- *material: crom vanadiu*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *maner ergonomic rezistent bimaterial*
- *executie in concordanta cu standardul ISO 3315*





UNIOR

		L				
611899	1/2"	380	572	4B	10	120,01
611900	1/2"	450	671	4B	10	128,62



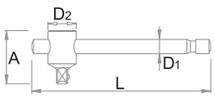
190.3/1

Antrenor cu parghie glisanta 1/2"

- *material:crom vanadium*
- *tratament termic total*
- *acoperire cromare conform EN12540*
- *executie in concordanta cu standardul ISO 3315*

1/2"





UNIOR

		L	A	D1	D2				
600876	1/2"	300	45	14	25.5	340	4A	10	48,89

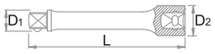
190.4/1

Prelungitor lung 1/2"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *produs conform standardului ISO 3316*

1/2" 1/2"





UNIOR

		L	D1	D2				
607955	1/2"	75	16.8	24	114	4B	10	30,35
600874	1/2"	125	16.8	24	178	4B	10	39,55
600875	1/2"	250	16.8	24	326	4B	10	51,08

190.4/1S

Prelungitor lung cap sferic 1/2"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *produs conform standardului ISO 3316*

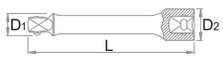
Avantaje:

- *Forma capului sferic permite lucrul la un unghi de 9°*

9° 9°

1/2" 1/2"





UNIOR

		L	D1	D2				
610909	1/2"	75	16.8	24	110	4B	10	41,49
610908	1/2"	125	16.8	24	180	4B	10	51,90
610907	1/2"	250	16.4	24	340	4B	10	67,96

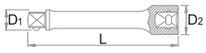
190.4/2

Prelungitor lung 1/2"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*

1/2" 1/2"





UNIOR

		L	D1	D2				
612565	1/2"	600	16.8	24	732	4B	1	103,71

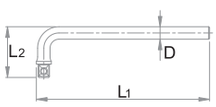
190.5/2

Antrenor cotit 1/2"

- *material:crom vanadium*
- *forjat, tratat complet*
- *acoperire cromare conform EN12540*
- *executie in concordanta cu standardul ISO 3315*

1/2"





UNIOR

		L1	L2	D				
610933	1/2"	250	59	16.8	342	4A	10	49,52

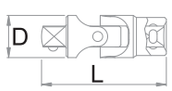
190.6/2

Intermediar cardanic 1/2"

- *material:crom vanadium*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *produs conform standardului ISO 3316*

1/2" 1/2"





UNIOR

		D	L				
600873	1/2"	23	75.5	158	4B	10	67.86

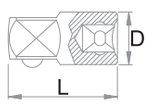
190.7/2

Adaptor 1/2"

- *material:crom vanadium*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *produs conform standardului ISO 3316*

1/2" 3/8"
3/4"

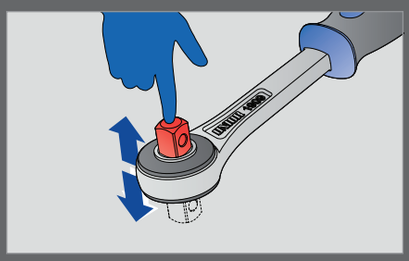




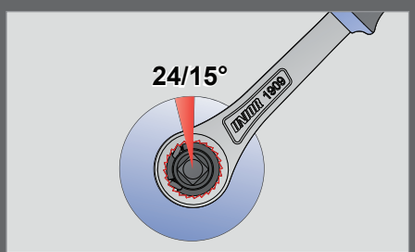
UNIOR

			D	L				
603334	1/2"	3/8"	23	38	67	4B	10	17,61
607975	1/2"	3/4"	22	35	168	4B	10	39,89

190.9/2BI



Sensul de insurubare al clichetului poate fi inversat apasand pe patratul de la capul clichetului



Cu 24 de dinti, unghi de rotati 15°



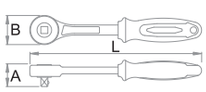
190.9/2BI

Antrenor cu clichet 1/2"

- *material:compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *suprafata:cromata in concordanta cu standardul EN 12540*
- *maner ergonomic rezistent bimaterial*

1/2"





UNIOR

		A	B	L				
600909	1/2"	38	43.5	252	498	4B	10	**123,56**

190.10

patrat de schimb 1/2"

- *material:otel carbon de scule*
- *capul cheii este tratat in intregime*
- *Antrenor cu clichet 1/2"*
- *executie in concordanta cu standardul ISO 3315*

1/2"



UNIOR

		L				
603378	1/2"	40	50	1E	10	**14,54**

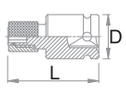
190.12

Adaptor de biti cu schimbare rapida 1/2"

- *material:otel carbon de scule*
- *forjata, calire si revenire totala*
- *acoperire prin brunare conform standardului DIN 12476*

1/2"





UNIOR

		L	D				
620856	1/2" - 1/4"	41	25	95	4B	10	**74,77**

190H

Clema pentru capete chei tubulare 1/2"

- *dimensiunea 330 - pentru set de 10 piese de la 8-32, numarul maxim de cleme 14*
- *dimensiunea 450 - 10 piese de aceiasi dimensiune (22), numarul maxim de cleme 19*

1/2"



UNIOR

	L				
619090	330	95	1E	10	**8,17**
619237	450	120	1E	10	**10,02**

190H1

Set de 10 piese suport de capete chei tubulare 1/2" pentru 190 H

1/2"



UNIOR

619412	27	1E	1	**6,28**

190H12P15

Set de capete chei tubulare 1/2", pe sina



622635	10 - 32 / 15	1400	1E	1	319,99

190/1 12p (10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32),**190H** (450)

190H12P15IN

Set de capete chei tubulare 1/2", pe sina



622634	3/8" - 1.1/4" / 15	1550	1E	1	377,19

190/1 12p (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.3/16", 1.1/4"), **190H** (450)

190H12LP7

Set de capete chei tubulare 1/2" varianta lunga, pe sina



622636	13 - 24 / 7	1100	1E	1	261,32

190/1L12p (13, 14, 15, 17, 21, 22, 24),**190H** (450)

190BI6P14

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei : 321 x 198 x 54 mm*



611940	10 - 24 / 14	3010	1G	1	580,97

190/1 6p (10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24), **190.1/1ABI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 125)

190BI6P23

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei : 448 x 198 x 54 mm*



612779	10 - 32 / 23	4780	1G	1	876,19

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.6/2** (1/2")

190BI6P24

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei : 448 x 198 x 54 mm*



611939	10 - 32 / 24	6160	1G	1	996,20

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2" x 380), **190.3/1** (1/2"), **190.4/1** (1/2"x125, 1/2"x250), **190.6/2** (1/2")

190BI12P14

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei : 321 x 198 x 54 mm*



611942	10 - 24 / 14	4020	1G	1	580,97

190/1 12p (10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24), **190.3/1** (1/2"), **190.1/1ABI** (1/2"), **190.4/1** (1/2" x 125)

190BI12P23

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei : 448 x 198 x 54 mm*



615327	10 - 32 / 23	4780	1C	1	**876,19**

190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2")

190BI12P24

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei : 448 x 198 x 54 mm*



611941	10 - 32 / 24	6160	1C	1	**991,58**

190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2" x 380), **190.3/1** (1/2"), **190.4/1** (1/2"x125, 1/2"x250), **190.6/2** (1/2")

190BI6P43

Trusa capete chei tubulare 1/2" si 1/4" in cutie metalica

- *Dimensiunea cutiei : 346 x 292 x 83 mm*



611944	4 - 32 / 43	4600	1C	1	**1272,31**

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13, 12, 14), **188.4/2** (1/4"x55, 1/4" x 150), **188.3/2** (1/4"), **190/1 6p** (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32), **190.6/2** (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.3/1** (1/2"), **192/2HX** (6, 7, 8, 10, 12, 14, 17), **188.6/2** (1/4"), **190.1/1ABI** (1/2"), **188.1/1ABI** (1/4")

190BI12P23IN

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei : 448 x 198 x 54 mm*



611943	3/8" - 1.1/4" / 23	5545	1C	1	**1037,79**

190/1 12p (3/8", 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.3/16", 1.1/4"), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2"x380), **190.3/1** (1/2"), **190.4/1** (1/2"x125, 1/2"x250), **190.6/2** (1/2")

190BI6P22IN

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei : 448 x 198 x 54 mm*



615180	5/16" - 1.1/4" / 22	5565	1C	1	**975,38**

190.6/2 (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.3/1** (1/2"), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2" x 380), **190/1 6p** (5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.3/16", 1.1/4")

190BITX1P22

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei : 448 x 198 x 54 mm*



611945	22	3875	1C	1	**988,95**

190.6/2 (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **192/2TX** (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), **191/1** (E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24), **190.1/1ABI** (1/2")

190BIHX1P20

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei : 448 x 198 x 54 mm*



611946	20	4080	1G	1	820,88

192/2HXL (5 x 100, 6 x 100, 7 x 100, 8 x 100, 10 x 100, 12 x 100),
192/2HX (4, 5, 6, 7, 8, 9, 10, 12, 14, 17, 19), **190.1/1ABI** (1/2"),
190.4/1 (1/2" x 125, 1/2" x 250)

190BI6P28

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei : 346 x 292 x 83 mm*



612162	10 - 32 / 28	5285	1G	1	1193,31

190/1 6p (10, 13, 14, 15, 16, 17, 18, 19, 22, 24, 27, 30, 32), **190.6/2** (1/2"),
190.4/1 (1/2" x 125, 1/2" x 250), **190.3/1** (1/2"), **190/1L12p**
(12, 13, 14, 17, 19, 21, 22, 24, 27, 30), **190.1/1ABI** (1/2")

190-6P17

Capete chei tubulare 1/2" in cutie de plastic

- *Dimensiunea cutiei : 307 x 260 x 70 mm*



622022	10 - 32 / 17	2995	1G	1	623,53

190/1 6p (10, 11, 12, 13, 14, 17, 19, 21, 22, 23, 24, 27, 30, 32),
190.9/2BI (1/2"), 190.3/1 (1/2"), **190.4/1** (1/2" x 75)

190BI6P17

Trusa capete chei tubulare 1/2" in cutie de plastic

- *Dimensiunea cutiei : 307 x 260 x 70 mm*



622023	10 - 32 / 17	2945	1G	1	674,66

190/1 6p (10, 11, 12, 13, 14, 17, 19, 21, 22, 23, 24, 27, 30, 32),
190.1/1ABI (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 75)

607MD6

Set de capete tubulare de 1/2" cu accesorii in suport modular



623921	10 - 32 / 109	1K	1	3942,63

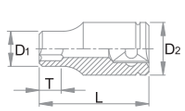
190/1 6p (6x(10),6x(11),6x(12),6x(13),6x(14),6x(15),6x(16),6x(17),6x(18),6x (19),
5x(20),5x(21),5x(22),5x(23),5x(24),4x(27),4x(30),4x(32)), **190.1/1ABI**
(4x(1/2")), **190.9/2BI** (4x(1/2")), **190.3/1** (4x(1/2")),
995.0MD2 (960 x 215 x 63), **995.2MD2** (950 x 45)

197/1 6p

Capete chei tubulare 3/4"

- *material:crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





		D1	D2	L	T				
619698	19	29.2	32.9	50	14.5	175	1B	10	41,74
602723	22	32.2	36	50	14	220	1B	10	42,66
602724	23	33.2	36	50	14	221	1B	10	42,66
602725	24	34.2	36	51	16	230	1B	10	45,05
602726	26	37	36	52	16	230	1B	10	46,46
602727	27	38	36	52	22	239	1B	10	48,55
602728	28	39	36	52	22	242	1B	10	49,62
619702	29	38	40.6	51.8	24.1	270	1B	10	51,08
602729	30	42	38	54	24	273	1B	10	51,42
602730	32	44	38	56	26	295	1B	10	54,34

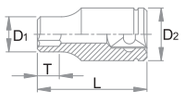
		D1	D2	L	T				
602731	34	47	38	56	26	347	1B	5	**57,11**
619701	35	42.1	48.2	58	30.3	401	1B	5	**58,52**
602732	36	50	42	58	28	400	1B	5	**61,10**
602733	38	52	45	60	28	488	1B	5	**67,13**
602734	41	56	45	64	30	502	1B	5	**73,45**
602735	46	62	48	68	34	621	1B	1	**89,70**
602736	50	68	48	72	36	708	1B	1	**113,29**
617527	55	74	48	76	32	914	1B	1	**122,63**
603135	60	80	48	78	42	1105	1B	1	**139,27**
609383	7/8"	32.2	36	50	14	220	1B	10	**46,26**
609384	15/16"	34.2	36	51	16	231	1B	10	**47,19**
609385	1"	37	36	52	16	234	1B	10	**54,53**
609386	1.1/16"	38	36	52	22	224	1B	10	**50,40**
609387	1.1/8"	40	38	52	22	265	1B	10	**55,11**
609388	1.1/4"	44	38	56	24	313	1B	10	**56,43**
609389	1.5/16"	46	38	56	26	336	1B	5	**61,10**
609390	1.3/8"	48	42	58	26	406	1B	5	**63,24**
609391	1.7/16"	50	42	58	28	415	1B	5	**64,94**
609392	1.1/2"	52	45	60	28	414	1B	5	**75,01**
609393	1.5/8"	56	45	64	30	572	1B	5	**79,68**
609394	1.11/16"	58	45	65	32	595	1B	5	**88,73**
609395	1.13/16"	62	48	68	34	698	1B	1	**99,82**
609396	1.7/8"	64	48	70	34	741	1B	1	**102,30**
609397	2"	68	48	72	36	842	1B	1	**111,15**
609398	2.1/16"	70	48	72	36	879	1B	1	**137,91**

197/1 12p

Capete chei tubulare 3/4" cu 12 laturi

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





UNIOR

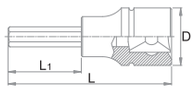
		D1	D2	L	T				
618666	22	32.2	36	50	14	215	1B	10	**42,66**
618667	23	33.2	36	50	14	216	1B	10	**42,66**
618668	24	34.2	36	51	16	224	1B	10	**45,05**
618669	26	37	36	52	16	220	1B	10	**46,46**
618670	27	38	36	52	22	224	1B	10	**48,55**
618671	28	39.5	36	52	22	234	1B	10	**49,57**
619703	29	38	40.4	52.2	24.5	258	1B	10	**51,08**
618672	30	42	38	54	24	254	1B	10	**51,42**
618673	32	44	38	56	26	282	1B	10	**54,34**
618674	34	47	38	56	26	329	1B	5	**57,11**
618675	36	50	42	58	28	372	1B	5	**61,10**
618676	38	52	45	60	28	473	1B	5	**67,13**
618677	41	56	45	64	30	487	1B	5	**73,45**
618678	46	62	47	68	34	566	1B	1	**89,70**
618679	50	68	48	72	36	683	1B	1	**113,29**
618680	55	74	48	76	40	828	1B	1	**122,63**
618681	60	80	48	78	42	993	1B	1	**139,27**

197/2AHX

Capete chei tubulare 3/4" cu profil hexagonal

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*
- *produs conform cu standardul DIN 7422 (doar pentru dimensiunile in mm)*





UNIOR

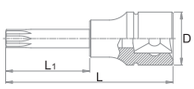
		D	L	L1				
619836	14	33.85	80	30	267	1B	5	**67,71**
619837	17	33.85	80	30	275	1B	5	**67,71**
619838	19	33.85	80	30	364	1B	5	**81,87**
619839	22	33.85	80	30	381	1B	5	**81,87**

197/2ATX

Capete chei tubulare 3/4" cu profil TX

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





UNIOR

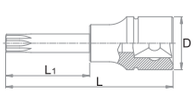
		D	L	L1				
619840	60	33.85	80	30	257	1B	5	**67,71**
619841	70	33.85	80	30	262	1B	5	**67,71**
619842	80	33.85	80	30	267	1B	5	**79,92**
619843	90	33.85	80	30	351	1B	5	**96,37**
619844	100	33.85	80	30	363	1B	5	**98,60**

197/2AZX

Capete chei tubulare 3/4" profil ZX

- *material capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





UNIOR

		D	L	L1				
620818	M18	33.9	80	30	371	1B	5	**81,87**



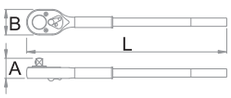
197.1/1

Antrenor cu clichet reversibil 3/4"

- *material: compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *executie in concordanta cu standardul ISO 3315*

3/4"





UNIOR

	■	A	B	L				
602737	3/4"	58	63.5	500	2590	1C	1	**564,62**

197.11

Piese de schimb pentru 197.1/1



616806	11	495	1B	1	**152,60**

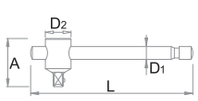
197.3/1

Antrenor cu parghie glisanta 3/4"

- *material: crom vanadiu*
- *tratament termic total*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *executie in concordanta cu standardul ISO 3315*

3/4"





UNIOR

	■	A	D1	D2	L				
602738	3/4"	60	20	37	455	1400	1C	1	**159,36**

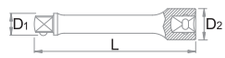
197.4/1

Prelungitor lung 3/4"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *conform cu standardul ISO 3316*

3/4"





UNIOR

	■	L	D1	D2				
602740	3/4"	200	25.3	36	635	1B	1	**162,09**
602739	3/4"	400	25.3	36	1160	1B	1	**95,25**

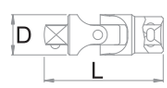
197.6/1

Intermediar cardanic 3/4"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *conform cu standardul ISO 3316*

3/4"





UNIOR

	■	D	L				
617657	3/4"	40	107	597	1B	1	**191,37**

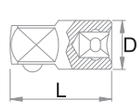
197.7/1

Adaptor 3/4"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *conform cu standardul ISO 3316*

3/4"
1/2"
1"





UNIOR

		L	D				
602741	3/4" - 1/2"	54	34	181	1B	5	**73,60**
610695	3/4" - 1"	62	38	364	1B	5	**99,38**



197MB1

Trusa capete chei tubulare 3/4" in cutie metalica

- *Dimensiunea cutiei : 505 x 215 x 78 mm*



602742	22 - 46 / 14	12600	1F	1	**1902,65**

197/1 6p (22, 24, 27, 30, 32, 36, 38, 41, 46), **197.1/1** (3/4"x500), **197.3/1** (3/4"), **197.4/1** (3/4" x 400, 3/4" x 200), **197.7/1** (3/4" - 1/2")

197MB2

Trusa capete chei tubulare 3/4" in cutie metalica

- *Dimensiunea cutiei : 505 x 215 x 78 mm*



600954	22 - 50 / 14	13000	1F	1	**1940,69**

197/1 6p (22, 24, 27, 30, 32, 36, 38, 41, 46, 50), **197.3/1** (3/4"), **197.1/1** (3/4"x500), **197.4/1** (3/4" x 400, 3/4" x 200)

197MB3

Set capete chei tubulare in inch 3/4" in cutie metalica

- *Dimensiunea cutiei : 505 x 215 x 78 mm*



617119	7/8" - 1.7/8" / 14	12600	1F	1	**1925,81**

197/1 6p (7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4", 1.3/8", 1.1/2", 1.5/8", 1.7/8"), **197.1/1** (3/4" x 500), **197.3/1** (3/4"), **197.4/1** (3/4" x 400, 3/4" x 200)

197MB4

Trusa capete chei tubulare 3/4" in cutie metalica

- *Dimensiunea cutiei : 505 x 215 x 78 mm*



619927	22 - 55 / 15	13600	1F	1	**2149,48**

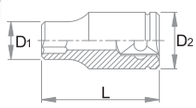
197/1 6p (22, 24, 27, 30, 32, 36, 41, 46, 55), **197.1/1** (3/4"x500), **197.3/1** (3/4"), **197.4/1** (3/4" x 400, 3/4" x 200), **197.6/1** (3/4"), **197.7/1** (3/4" - 1/2")

199/1 6p

Capete chei tubulare 1"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *executie in concordanta cu standardul ISO 2725-1*





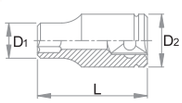
		D1	D2	L	T				
603096	46	65	50	75	34	849	1C	1	**127,55**
603097	50	70	55	75	34	1039	1C	1	**134,94**
603098	55	76	57	80	40	1222	1C	1	**165,93**
603099	60	82	57	84	42	1383	1C	1	**188,79**
603100	65	88	57	87	44	1607	1C	1	**240,65**
603101	70	94	68	93	48	2039	1C	1	**262,10**
603102	75	100	68	97	52	2243	1C	1	**309,67**
603103	80	105	68	103	54	2479	1C	1	**350,29**

199/1 12p

Capete chei tubulare 1" cu 12 laturi

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *executie in concordanta cu standardul ISO 2725-1*





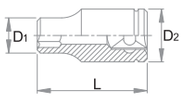
		D1	D2	L	T				
618699	65	82	56.9	84	42	1444	1C	1	**322,27**

5014

Capete chei tubulare 1" cu 12 laturi

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *executie in concordanta cu standardul ISO 2725-1*





WGB Das Werkzeug

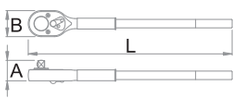
		L				
9249083	70	96	1775	1C	1	**727,49**
9249093	75	100	2200	1C	1	**825,34**
9249103	80	107	2556	1C	1	**885,39**

199.1/1

Antrenor cu clichet reversibil 1"

- *material:compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *suprafata:cromata in concordanta cu standardul EN 12540*
- *executie in concordanta cu standardul ISO 3315*





UNIOR

		A	B	L				
603104	1"	71	71.5	665	4655	1C	1	**810,43**

199.11

Piese de schimb pentru 199.1



UNIOR

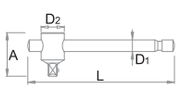
616807	11	835	1E	1	**188,99**

199.3/1

Antrenor cu parghie glisanta 1"

- *material: crom vanadiu*
- *tratament termic total*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *executie in concordanta cu standardul ISO 3315*





UNIOR

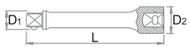
		A	D1	D2	L				
603105	1"	80	28	49	560	3330	1C	1	**359,97**

199.4/1

Prelungitor lung 1"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *conform cu standardul ISO 3316*





UNIOR

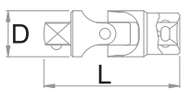
		L	D1	D2				
603107	1"	200	33.6	48	1125	1C	1	**216,76**
603106	1"	400	33.6	48	1900	1C	1	**352,72**

199.6/1

Intermediar cardanic 1"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *conform cu standardul ISO 3316*





UNIOR

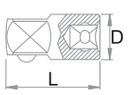
		D	L				
617658	1"	49	141	1120	1E	1	**308,94**

199.7/1

Adaptor 1"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *conform cu standardul ISO 3316*





UNIOR

		D	L				
619905	1" - 3/4"	48	65	427	1C	1	**120,30**

199MB1

Trusa capete chei tubulare 1" in cutie metalica

- *Dimensiunea cutiei : 670 x 220 x 100 mm*



UNIOR

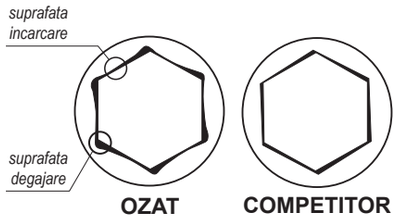
603095	46 - 80 / 12	29800	1F	1	**3885,28**

199/1 6p (46, 50, 55, 60, 65, 70, 75, 80), **199.1/1** (1"), **199.3/1** (1"), **199.4/1** (1" x 400, 1" x 200)

Capete chei tubulare de impact

Ozat ofera cel mai larg program de capete tubulare de impact, chei de soc si chei de constructii, care sunt special concepute pentru sarcini de lucru cu impact puternic.
De peste 40 de ani, OZAT a fabricat unelte si piese recunoscute in peste 60 de tari din intreaga lume pentru calitatea si fiabilitatea lor ridicata.
Produsele OZAT sunt fabricate conform standardelor americane ANSI B107, standardelor europene DIN 3121, 3129 si ISO 1174-2, 1703, 1171-2 si 2725-2.

Designul capetelor tubulare de impact OZAT este net superior celor mai multe alte modele disponibile. Procesul de prelucrare electrochimica face posibil ca OZAT sa produca toate capetele tubulare de impact in configuratia ***less-stres™***, ilustrata mai jos:



Capetele tubulare de impact OZAT asigura garantie de viata, atata timp cat sunt utilizate conform specificatiilor inca de la prima utilizare.

Legenda simbolurilor

Profil hexagon interior cu 6 laturi

Profil de protectie al suprafetei

Profil hexagon interior cu 12 laturi

Profil hexagon exterior

Patrat exterior

Profil octogon interior

Profil TORX® exterior

Profil interior Spline #5

Profil patrat interior

Profil TORX® interior

Profil de antrenare Spline #5

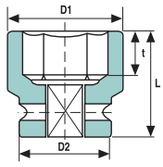
Magnetic

04M 1/4”

Cap cheie tubulara impact 1/4" 6 laturi, scurta

- *patrat de antrenare 1/4” DIN 3121 - forma G 6,3*
- *hexagon interior confrom DIN 475/2*





1/4” 6.3mm

OZAT 2000 LTD.

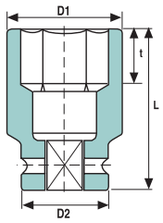
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
04M04	4 mm	7.6	13	23	3	14	**20,88**
04M05	5 mm	8.8	13	23	3	14	**20,88**
04M06	6 mm	10	13	23	3	14	**20,88**
04M07	7 mm	11.3	13	23	3	14	**20,88**
04M08	8 mm	12.5	13	23	4	14	**20,88**
04M09	9 mm	13.8	13	23	4	15	**20.88**
04M10	10 mm	15	13	23	5	15	**22,65**
04M11	11 mm	16.3	13	23	5	18	**22,65**
04M12	12 mm	17	13	23	6	19	**22,65**
04M13	13 mm	18.8	13	23	6	19	**22,65**
04M14	14 mm	20	13	23	7	22	**24,87**
0403	3/16"	8.5	13	23	3	14	**20,88**
04035	7/32"	9.5	13	23	3	14	**20,88**
0404	1/4"	10.3	13	23	3	14	**20,88**
04045	9/32"	11.3	13	23	3	14	**20,88**
0405	5/16"	12.5	13	23	3	14	**20,88**
04055	11/32"	13.8	13	23	4	15	**20,88**
0406	3/8"	15	13	23	4	15	**22,65**
0407	7/16"	16.3	13	23	6	18	**22,65**
0408	1/2"	18.8	13	23	6	19	**22,65**
0409	9/16"	20	13	23	7	22	**24,87**

04ML 1/4”

Cap cheie tubulara impact 1/4" 6 laturi, lunga

- *patrat de antrenare 1/4” DIN 3121 - forma G 6,3*
- *hexagon interior confrom DIN 475/2*





1/4” 6.3mm

OZAT 2000 LTD.

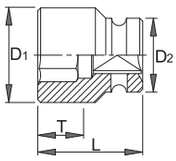
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
04M04L	4mm	7.6	13	50	3	29	**29,17**
04M05L	5mm	8.8	13	50	3	29	**29,17**
04M06L	6mm	10	13	50	3	29	**29,17**
04M07L	7mm	11.3	13	50	3	29	**29,17**
04M08L	8mm	12.5	13	50	4	29	**29,17**
04M09L	9mm	13.8	13	50	4	31	**33,61**
04M10L	10mm	15	13	50	5	31	**35,83**
04M11L	11mm	16.3	13	50	5	37	**35,83**
04M12L	12mm	17	13	50	6	39	**35,83**
04M13L	13mm	18.8	13	50	6	39	**38,20**
04M14L	14mm	20	13	50	7	45	**39,53**
04M15L	15mm	21	13	50	7	45	**40,42**
0403L	3/16"	8.5	13	50	3	29	**29,17**
04035L	7/32"	9.5	13	50	3	29	**29,17**
0404L	1/4"	10.3	13	50	3	29	**29,17**
04045L	9/32"	11.3	13	50	3	29	**29,17**
0405L	5/16"	12.5	13	50	3	29	**29,17**
04055L	11/32"	13.8	13	50	4	31	**33,61**
0406L	3/8"	15	13	50	4	31	**35,83**
0407L	7/16"	16.3	13	50	6	37	**35,83**
0408L	1/2"	18.8	13	50	6	39	**38,20**
0409L	9/16"	20	13	50	7	45	**39,53**

230/4 6p

Capete chei tubulare de impact 3/8"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*
- *in conformitate cu standardul ISO 2725-2(numai dimensiunile in mm)*





UNIOR

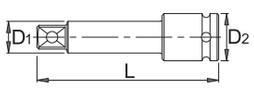
		D2	D1	L	T				
612060	8	19	13.8	30	8	45	4B	10	**24,47**
612061	9	19	15	30	8	45	4B	10	**24,47**
612062	10	19	16.3	30	8	45	4B	10	**24,47**
612063	11	19	17.5	30	9	45	4B	10	**24,47**
612064	12	19	19	30	9	45	4B	10	**24,47**
612065	13	22	20	30	10	61	4B	10	**26,17**
612066	14	22	21.3	30	11	55	4B	10	**26,17**
612067	15	22	22	30	11	58	4B	10	**26,17**
612068	16	22	24	30	12	65	4B	10	**26,17**
612069	17	22	25	30	12	65	4B	10	**26,17**
612070	18	22	26	30	12	69	4B	10	**27,24**
612071	19	22	27.5	30	19	66	4B	10	**27,24**
612072	20	22	28	30	13	66	4B	10	**29,62**
612073	21	22	30	30	13	73	4B	10	**29,62**
612074	22	23	32	30	13	86	4B	10	**32,88**

230.4/4

Prelungitor de impact 3/8"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*





UNIOR

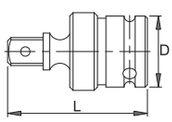
	■	L	D1	D2				
612075	3/8"	75	12.5	19	83	1E	10	**50,20**
612076	3/8"	125	12.5	19	127	1E	10	**55,75**

230.6/4

Intermediar cardanic de impact 3/8"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*





UNIOR

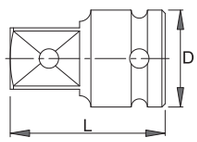
	■	D	L				
612077	3/8"	23.9	51	98	1E	10	**109,74**

230.7/4

Adaptor de impact 3/8"-1/2"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*





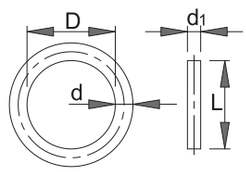
UNIOR

		D	L				
612078	3/8" - 1/2"	22	36	67	1E	10	**41,06**

230.8/4

Accesorii pentru capete chei tubulare de impact 3/8"





UNIOR

		D	d	L	d1				
612079	6 - 12	16	2.4	15	2.5	7	1E	10	**3,79**
612080	13 - 21	19	2.4	18	2.5	7	1E	10	**3,79**
612081	22 - 22	20	2.4	18	2.5	7	1E	10	**3,79**

230/4MB1

Trusa capete chei tubulare de impact 3/8 in cutie metalica

- *Dimensiunea cutiei : 197 x 105 x 38*



UNIOR

612590	8 - 22 / 16	1125	1C	1	**439,80**

230/4 6p (8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22), **230.4/4** (3/8" x 75), **230.8/4** (6 - 12, 13 - 21, 22 - 22)

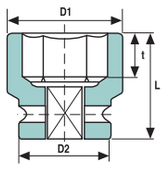


06M 3/8”

Cap cheie tubulara impact 3/8" 6 laturi, scurta

- *patrat de antrenare 3/8” DIN 3121 - forma G 10*
- *hexagon interior confrom DIN 475/2*





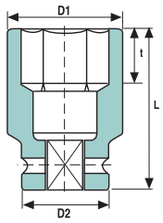
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
06M6	6	11	19	30	3	40	**28,72**
06M7	7	12.5	19	30	3	40	**28,72**
06M8	8	14.5	19	30	4	40	**28,72**
06M9	9	15	19	30	4	40	**28,72**
06M10	10	16	19	30	5	40	**28,72**
06M11	11	17.5	19	30	5	40	**28,72**
06M12	12	19	19	30	6	40	**28,72**
06M13	13	19	22	30	6	60	**28,72**
06M14	14	21	22	30	7	60	**28,72**
06M15	15	22	22	30	7	60	**31,98**
06M16	16	24	22	30	8	60	**31,98**
06M17	17	25	22	30	9	60	**31,98**
06M18	18	26	22	30	9	60	**31,98**
0612M19	19	27.5	22	30	9.5	70	**31,98**
06M20	20	28	22	30	10	70	**38,20**
06M21	21	30	22	30	11	70	**38,20**
06M22	22	32	23	30	11	100	**40,64**
06M23	23	32	23	30	13	100	**48,04**
0606	3/8"	14.5	19	30	4	40	**28,72**
0607	7/16"	17	19	30	6	40	**28,72**
0608	1/2"	19	19	30	6	40	**28,72**
0609	9/16"	20	20	30	7	40	**31,98**
0610	5/8"	24	24	30	8	60	**31,98**
0611	11/16"	24	24	30	9	60	**31,98**
0612M19inch	3/4"	27.5	22	30	9.5	70	**31,98**
0613	13/16"	28	28	30	11	70	**40,64**
0614	7/8"	30	30	30	13	100	**48,04**

06ML 3/8”

Cap cheie tubulara impact 3/8" 6 laturi, lunga

- *patrat de antrenare 3/8” DIN 3121 - forma G 10*
- *hexagon interior confrom DIN 475/2*





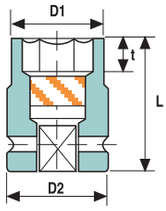
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
06M6L	6	11	19	57	3	80	**52,34**
06M7L	7	12.5	19	65	3	80	**52,34**
06M8L	8	14.5	19	65	4	80	**52,34**
06M9L	9	15	19	65	4	80	**52,34**
06M10L	10	16	19	65	5	80	**52,34**
06M11L	11	17.5	19	65	5	80	**52,34**
06M12L	12	19	19	65	6	80	**52,34**
06M13L	13	20	22	65	6	120	**55,23**
06M14L	14	21	22	65	7	120	**58,19**
06M15L	15	22	22	65	7	120	**58,19**
06M16L	16	24	22	65	8	130	**58,19**
06M17L	17	25	22	65	9	130	**58,19**
06M18W06L	18	26	22	65	9	150	**58,19**
0612M19L	19	27.5	22	65	9.5	150	**58,19**
06M20L	20	28	22	65	10	150	**62,63**
06M21L	21	30	22	65	11	180	**67,96**
06M22L	22	32	23	65	11	200	**67,96**
06M23L	23	32	23	65	13	200	**70,11**
0606L	3/8"	14.5	19	65	4	80	**52,34**
0607L	7/16"	17	19	65	6	80	**52,34**
0608L	1/2"	19	19	65	6	80	**52,34**
0609L	9/16"	22	22	65	7	120	**58,19**
0610L	5/8"	24	24	65	8	130	**58,19**
0611L	11/16"	24	24	65	9	130	**58,19**
0612M19Linch	3/4"	27.5	22	65	9.5	150	**58,19**
0613L	13/16"	28	28	65	11	160	**67,96**
0614L	7/8"	30	30	65	13	200	**70,11**

06MM 3/8”

Cap cheie tubulara de impact cu magnet 3/8" 6 laturi, scurta

- *patrat de antrenare 3/8” DIN 3121 - forma G 10*
- *hexagon interior confrom DIN 475/2*
- *cu magnet permanent puternic*





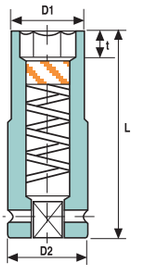
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
06M06M	6	11	19	30	3	40	**52,49**
06M07M	7	12.5	19	30	3	40	**52,49**
06M08M	8	14.5	19	30	4	40	**52,49**
06M09M	9	15	19	30	4	40	**52,49**
06M10M	10	16	19	30	5	40	**52,49**
06M11M	11	17.5	19	30	5	40	**52,49**
06M12M	12	19	19	30	6	40	**52,49**
06M13M	13	19	22	30	6	60	**52,49**
06M14M	14	21	22	30	7	60	**52,49**
06M15M	15	22	22	30	7	60	**58,33**
06M16M	16	24	22	30	8	60	**58,33**
06M17M	17	25	22	30	9	60	**58,33**
06M18M	18	26	22	30	9	60	**58,33**
0612M19M	19	27.5	22	30	9.5	70	**58,33**
0606M	3/8"	14.5	19	30	4	40	**52,49**
0607M	7/16"	17	19	30	6	40	**52,49**
0608M	1/2"	19	19	30	6	40	**52,49**
0609M	9/16"	20	20	30	7	40	**58,33**
0610M	5/8"	24	24	30	8	60	**58,33**
0611M	11/16"	25	22	30	9	60	**58,33**
0612M19Minch	3/4"	27.5	22	30	9.5	70	**58,33**

06MLM 3/8”

Cap cheie tubulara de impact cu magnet 3/8" 6 laturi, lunga

- *patrat de antrenare 3/8” DIN 3121 - forma G 10*
- *hexagon interior confrom DIN 475/2*
- *cu magnet permanent puternic*





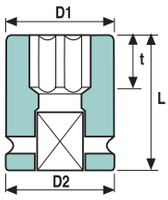
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
06M06LM	6	11	19	57	3	80	**139,91**
06M07LM	7	12.5	19	65	3	80	**139,91**
06M08LM	8	14.5	19	65	4	80	**139,91**
06M09LM	9	15	19	65	4	80	**139,91**
06M10LM	10	16	19	65	5	80	**139,91**
06M11LM	11	17.5	19	65	5	80	**139,91**
06M12LM	12	19	19	65	6	80	**139,91**
06M13LM	13	19	22	65	6	120	**147,39**
06M14LM	14	21	22	65	7	120	**155,31**
06M15LM	15	22	22	65	7	120	**155,31**
06M16LM	16	24	22	65	8	130	**155,31**
06M17LM	17	25	22	65	9	130	**155,31**
06M18LM	18	26	22	65	9	150	**155,31**
0612M19LM	19	27.5	22	65	9.5	150	**155,31**
0606LM	3/8"	14.5	19	65	4	80	**139,91**
0607LM	7/16"	17	19	65	6	80	**139,91**
0608LM	1/2"	19	19	65	6	80	**139,91**
0609LM	9/16"	20	20	65	7	120	**155,31**
0610LM	5/8"	24	24	65	8	130	**155,31**
0611LM	11/16"	25	22	65	9	130	**155,31**
0612M19LMinch	3/4"	27.5	22	65	9.5	150	**155,31**

06E 3/8”

Cap cheie tubulara impact 3/8" cu profil TORX® interior

- *patrat de antrenare 3/8” DIN 3121 - forma G 10*
- *profil E pentru TORX® interior*



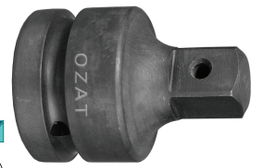


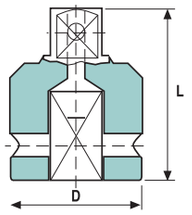
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
06E05	E5	9	19	32	5	40	**27,91**
06E06	E6	10	19	32	5	40	**27,91**
06E07	E7	10	19	32	7	40	**27,91**
06E08	E8	10.5	19	32	8	40	**27,91**
06E10	E10	12.5	19	32	9	40	**27,91**
06E11	E11	14.5	19	32	9	45	**27,91**
06E12	E12	15	19	32	10	45	**27,91**
06E14	E14	17.5	19	32	12	45	**27,91**
06E16	E16	19	19	32	12	45	**27,91**

A06 3/8”

Adaptor de impact 3/8"-1/2"

- *patrat de antrenare (interior) 3/8” DIN 3121 - forma G 10*
- *patrat exterior 1/2”*





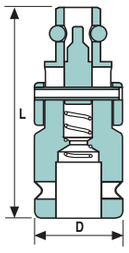
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
A0608	3/8"	1/2"	22	33	60	**59,96**

QACD06 3/8”

Adaptor de impact cu schimbare rapida 3/8"

- *patrat de antrenare (interior) 3/8” DIN 3121 - forma G 10*
- *patrat exterior 3/8”*





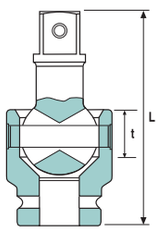
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
QACD06	3/8"	3/8"	20	46	60	**340,75**

Q0606 3/8”

Intermediar cardanic de impact 3/8"

- *patrat de antrenare (interior) 3/8” DIN 3121 - forma G 10*
- *patrat exterior 3/8”*





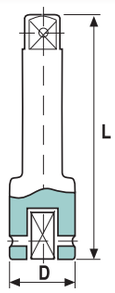
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
Q0606	3/8"	3/8"	20,4	50	130	**113,48**

E060 3/8”

Prelungitor de impact 3/8"

- *patrat de antrenare (interior) 3/8” DIN 3121 - forma G 10*
- *patrat exterior 3/8”*



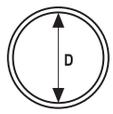


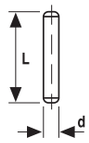
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
E0603	3/8"	3/8"	19	75	150	**33,24**
E0604	3/8"	3/8"	19	100	190	**35,02**
E0605	3/8"	3/8"	19	125	240	**39,68**
E0606	3/8"	3/8"	19	150	300	**43,23**

R06 3/8”

Inel cu stift de siguranta 3/8"







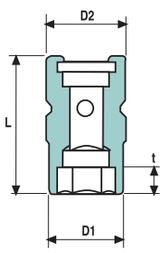
	Patrat	Tip	Cap tubular	d	L	D	
				mm	mm	mm	
P0619	3/8"	pin	6-19 mm	2,5	14	-	**4,00**
P0622	3/8"	pin	20-23 mm	2,5	16	-	**4,00**
R0619	3/8"	inel	6-19 mm	-	-	14	**6,66**
R0622	3/8"	inel	20-23 mm	-	-	15,5	**6,66**

LOV06M 3/8”

Cap cheie tubulara de impact cu nivel de vibratii scazut "LOV" 3/8", standard

- *patrat de antrenare (interior) 3/8” DIN 3121 - forma G 10*
- *capete de impact "LOV" (LOSS OF VIBRATION)*
- *pentru utilizare cu masini electrice / pneumatice pulsatorii*





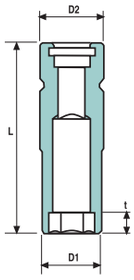
	Dimensiune	D1	D2	L	t min	
	MM/inch	mm	mm	mm	mm	
LOV06M06	6	11	19	43	10	**87,28**
LOV06M07	7	13	19	43	10	**87,28**
LOV06M08	8	15	19	43	10	**87,28**
LOV06M09	9	15	19	43	10	**87,28**
LOV06M10	10	16	19	43	12	**92,09**
LOV06M11	11	18	19	43	12	**92,09**
LOV06M12	12	19	19	43	12	**92,09**
LOV06M13	13	19	22	43	12	**96,76**
LOV06M14	14	21	22	43	12	**96,76**
LOV06M15	15	22	22	43	12	**96,76**
LOV06M16	16	24	22	43	12	**96,76**
LOV06M17	17	25	22	43	13	**106,38**
LOV06M18	18	26	22	43	13	**106,38**
LOV0612M19	19	28	22	43	13	**106,38**
LOV06M20	20	28	22	43	13	**106,38**
LOV06M21	21	30	22	43	13	**116,00**
LOV0606	3/8"	15	19	43	10	**87,28**
LOV0607	7/16"	18	19	43	12	**92,09**
LOV0608	1/2"	19	19	43	12	**92,09**
LOV0609	9/16"	21	22	43	12	**96,76**
LOV0610	5/8"	24	22	43	12	**96,76**
LOV0611	11/16"	25	22	43	13	**106,38**
LOV0612M19inch	3/4"	28	22	43	13	**106,38**
LOV0613	13/16"	28	22	43	13	**106,38**

LOV06ML100 3/8”

Cap cheie tubulara de impact cu nivel de vibratii scazut "LOV" 3/8", 100 mm

- *patrat de antrenare (interior) 3/8” DIN 3121 - forma G 10*
- *capete de impact "LOV" (LOSS OF VIBRATION)*
- *pentru utilizare cu masini electrice / pneumatice pulsatorii*



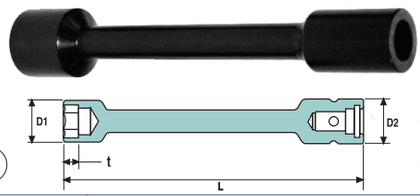


	Dimensiune	D1	D2	L	t min	
	MM/inch	mm	mm	mm	mm	
LOV06M06L100	6	11	19	100	10	197,29
LOV06M07L100	7	13	19	100	10	197,29
LOV06M08L100	8	15	19	100	10	197,29
LOV06M09L100	9	15	19	100	10	197,29
LOV06M10L100	10	16	19	100	12	197,29
LOV06M11L100	11	18	19	100	12	197,29
LOV06M12L100	12	19	19	100	12	197,29
LOV06M13L100	13	19	22	100	12	197,29
LOV06M14L100	14	21	22	100	12	197,29
LOV06M15L100	15	22	22	100	12	197,29
LOV06M16L100	16	24	22	100	12	197,29
LOV06M17L100	17	25	22	100	13	225,94
LOV06M18L100	18	26	22	100	13	225,94
LOV0612M19L100	19	28	22	100	13	225,94
LOV06M20L100	20	28	22	100	13	225,94
LOV06M21L100	21	30	22	100	13	261,69
LOV0606L100	3/8"	15	19	100	10	197,29
LOV0607L100	7/16"	18	19	100	12	197,29
LOV0608L100	1/2"	19	19	100	12	197,29
LOV0609L100	9/16"	21	22	100	12	197,29
LOV0610L100	5/8"	24	22	100	12	197,29
LOV0611L100	11/16"	25	22	100	13	225,94
LOV0612M19L100inch	3/4"	28	22	100	13	225,94
LOV0613L100	13/16"	28	22	100	13	225,94

LOV06ML150 3/8”

Cap cheie tubulara de impact cu nivel de vibratii scazut "LOV" 3/8", 150 mm

- *patrat de antrenare (interior) 3/8” DIN 3121 - forma G 10*
- *capete de impact "LOV" (LOSS OF VIBRATION)*
- *pentru utilizare cu masini electrice / pneumatice pulsatorii*

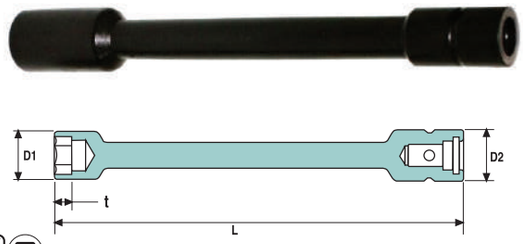


	Dimensiune	D1	D2	L	t min	
	MM/inch	mm	mm	mm	mm	
LOV06M06L150	6	11	19	150	10	218,68
LOV06M07L150	7	13	19	150	10	218,68
LOV06M08L150	8	15	19	150	10	218,68
LOV06M09L150	9	15	19	150	10	218,68
LOV06M10L150	10	16	19	150	12	218,68
LOV06M11L150	11	18	19	150	12	218,68
LOV06M12L150	12	19	19	150	12	218,68
LOV06M13L150	13	19	22	150	12	218,68
LOV06M14L150	14	21	22	150	12	218,68
LOV06M15L150	15	22	22	150	12	218,68
LOV06M16L150	16	24	22	150	12	218,68
LOV06M17L150	17	25	22	150	13	237,85
LOV06M18L150	18	26	22	150	13	237,85
LOV0612M19L150	19	28	22	150	13	237,85
LOV06M20L150	20	28	22	150	13	237,85
LOV06M21L150	21	30	22	150	13	280,94
LOV0606L150	3/8"	15	19	150	10	218,68
LOV0607L150	7/16"	18	19	150	12	218,68
LOV0608L150	1/2"	19	19	150	12	218,68
LOV0609L150	9/16"	21	22	150	12	218,68
LOV0610L150	5/8"	24	22	150	12	218,68
LOV0611L150	11/16"	25	22	150	13	237,85
LOV0612M19L150inch	3/4"	28	22	150	13	237,85
LOV0613L150	13/16"	28	22	150	13	237,85

LOV06ML200 3/8”

Cap cheie tubulara de impact cu nivel de vibratii scazut "LOV" 3/8", 200 mm

- *patrat de antrenare (interior) 3/8” DIN 3121 - forma G 10*
- *capete de impact "LOV" (LOSS OF VIBRATION)*
- *pentru utilizare cu masini electrice / pneumatice pulsatorii*



	Dimensiune	D1	D2	L	t min	
	MM/inch	mm	mm	mm	mm	
LOV06M06L200	6	11	19	200	10	230,75
LOV06M07L200	7	13	19	200	10	230,75
LOV06M08L200	8	15	19	200	10	230,75
LOV06M09L200	9	15	19	200	10	230,75
LOV06M10L200	10	16	19	200	12	230,75
LOV06M11L200	11	18	19	200	12	230,75
LOV06M12L200	12	19	19	200	12	254,58
LOV06M13L200	13	19	22	200	12	254,58
LOV06M14L200	14	21	22	200	12	254,58
LOV06M15L200	15	22	22	200	12	280,94
LOV06M16L200	16	24	22	200	12	280,94
LOV06M17L200	17	25	22	200	13	280,94
LOV06M18L200	18	26	22	200	13	280,94
LOV0612M19L200	19	28	22	200	13	280,94
LOV06M20L200	20	28	22	200	13	280,94
LOV06M21L200	21	30	22	200	13	307,15
LOV0606L200	3/8"	15	19	200	10	230,75
LOV0607L200	7/16"	18	19	200	12	230,75
LOV0608L200	1/2"	19	19	200	12	254,58
LOV0609L200	9/16"	21	22	200	12	254,58
LOV0610L200	5/8"	24	22	200	12	280,94
LOV0611L200	11/16"	25	22	200	13	280,94
LOV0612M19L200inch	3/4"	28	22	200	13	280,94
LOV0613L200	13/16"	28	22	200	13	280,94

SET-06-01 3/8”

Trusa capete tubulare de impact scurte 3/8" 8-19 mm/8 piese

- *patrat de antrenare (interior) 3/8” DIN 3121 - forma G 10*



	Dimensiune	
SET-06-01	8-19 mm / 8 piese 8, 9, 10, 11, 13, 15, 17, 19	244,37

SET-06-02 3/8”

Trusa capete tubulare de impact lungi 3/8" 8-19 mm/8 piese

- *patrat de antrenare (interior) 3/8” DIN 3121 - forma G 10*



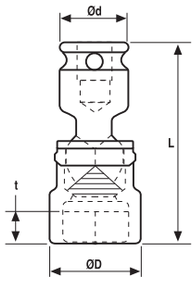
	Dimensiune	
SET-06-02	8-19 mm / 8 piese 8, 9, 10, 11, 13, 15, 17, 19	438,25

UB06 3/8”

Cap cheie tubulara articulat 3/8", varianta scurta

- *patrat de antrenare 3/8” DIN 3121 - forma G 10*
- *hexagon interior confrom DIN 475/2*





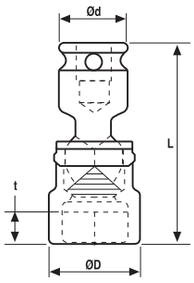
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
UB06M9	9	15	22	60	4	80	**135,03**
UB06M10	10	16	22	60	5	80	**135,03**
UB06M11	11	17.5	22	60	5	80	**135,03**
UB06M12	12	19	22	60	6	90	**137,77**
UB06M13	13	19	22	60	6	90	**137,77**
UB06M14	14	21	22	60	7	100	**141,10**
UB06M15	15	22	22	60	7	100	**141,10**
UB06M16	16	24	22	60	8	110	**142,73**
UB06M17	17	25	22	60	9	110	**144,43**
UB06M18	18	26	22	60	9	120	**144,43**
UB06M19	19	27.5	22	60	9.5	120	**145,98**
UB06M20	20	28	22	60	10	130	**145,98**
UB06M21	21	30	22	60	11	130	**160,86**
UB06M22	22	32	22	60	11	140	**175,74**
UB0606	3/8"	15	22	60	4	80	**135,03**
UB0607	7/16"	17.5	22	60	5	80	**137,77**
UB0608	1/2"	19	22	60	6	90	**137,77**
UB0609	9/16"	20	22	60	7	100	**141,10**
UB0610	5/8"	24	22	60	8	110	**142,73**
UB0611	11/16"	25	22	60	9	110	**144,43**
UB0612	3/4"	27.5	22	60	9.5	120	**145,98**
UB0613	13/16"	28	22	60	11	130	**160,86**
UB0614	7/8"	32	22	60	13	140	**175,74**

UB06L 3/8”

Cap cheie tubulara articulat 3/8", varianta lunga

- *patrat de antrenare 3/8” DIN 3121 - forma G 10*
- *hexagon interior confrom DIN 475/2*





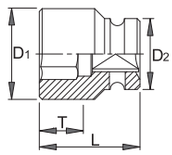
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
UB06M9L	9	15	22	150	4	140	**151,39**
UB06M10L	10	16	22	150	5	140	**151,39**
UB06M11L	11	17.5	22	150	5	140	**151,39**
UB06M12L	12	19	22	150	6	150	**154,28**
UB06M13L	13	19	22	150	6	150	**154,28**
UB06M14L	14	21	22	150	7	160	**157,61**
UB06M15L	15	22	22	150	7	160	**157,61**
UB06M16L	16	24	22	150	8	170	**159,24**
UB06M17L	17	25	22	150	9	170	**160,86**
UB06M18L	18	26	22	150	9	180	**160,86**
UB06M19L	19	27.5	22	150	9.5	180	**162,57**
UB06M20L	20	28	22	150	10	190	**162,57**
UB06M21L	21	30	22	150	11	190	**177,37**
UB06M22L	22	32	22	150	11	200	**192,62**
UB0606L	3/8"	15	22	150	4	140	**151,39**
UB0607L	7/16"	17.5	22	150	5	140	**154,28**
OB0608L	1/2"	19	22	150	6	150	**154,28**
UB0609L	9/16"	20	22	150	7	160	**157,61**
UB0610L	5/8"	24	22	150	8	170	**159,24**
UB0611L	11/16"	25	22	150	9	170	**160,86**
UB0612L	3/4"	27.5	22	150	9.5	180	**162,57**
UB0613L	13/16"	28	22	150	11	190	**177,37**
UB0614L	7/8"	32	22	150	13	200	**192,62**

231/4 6p

Capete chei tubulare de impact 1/2"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*
- *in conformitate cu standardul ISO 2725-2(numai dimensiunile in mm)*





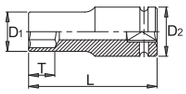
		D1	D2	L	T				
603962	10	17.5	25	38	12	94	4B	5	**23,74**
603963	11	18.7	25	38	12	95	4B	5	**23,74**
603964	12	20	25	38	12	95	4B	5	**23,74**
603965	13	21.3	25	38	12	96	4B	5	**23,74**
603966	14	22.5	25	38	12	95	4B	5	**24,47**
603967	15	23.7	30	38	12	140	4B	5	**27,10**
603968	16	25	30	38	12	143	4B	5	**27,58**
603969	17	26.2	30	38	13	140	4B	5	**27,58**
609399	18	27.5	30	38	13	135	4B	5	**31,13**
603970	19	28.7	30	38	13	126	4B	5	**31,13**
603971	21	30	30	38	13	139	4B	5	**35,66**
603972	22	32	30	38	13	133	4B	5	**35,66**
603973	23	32	30	38	13	183	4B	5	**36,82**
603974	24	35	30	45	20	235	4B	5	**38,43**
603975	27	38.7	30	50	24	235	4B	5	**47,62**
609400	28	40	30	50	24	255	4B	5	**52,15**
603976	30	42	30	50	24	259	4B	5	**54,00**
605548	32	42	30	50	24	72	4B	5	**58,42**

231/4L6p

Capete chei tubulare de impact lungi 1/2"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*
- *in conformitate cu standardul ISO 2725-2(numai dimensiunile in mm)*





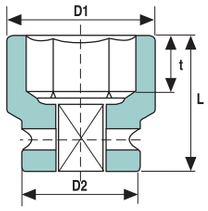
		D1	D2	L	T				
607918	10	17.5	25	78	14	144	4B	5	**39,65**
607919	11	18.7	25	78	14	166	4B	5	**39,65**
607920	12	20	25	78	14	160	4B	5	**39,65**
607921	13	21.3	25	78	14	168	4B	5	**39,65**
607922	14	22.5	25	78	17	174	4B	5	**39,65**
607923	15	23.7	30	78	17	226	4B	5	**47,38**
607924	16	25	30	78	17	259	4B	5	**47,38**
607925	17	26.2	30	78	17	244	4B	5	**47,38**
609401	18	27.5	30	78	17	257	4B	5	**47,38**
607926	19	28.7	30	78	19	265	4B	5	**47,38**
607927	21	30	30	78	24	280	4B	5	**47,38**
607928	22	32	30	78	24	292	4B	5	**49,42**
607929	23	32	30	78	24	275	4B	5	**50,30**
607930	24	35	30	78	24	337	4B	5	**57,69**
607931	27	38.7	30	78	24	395	4B	5	**63,77**
609402	28	40	30	78	24	395	4B	5	**67,62**
607932	30	42	30	78	24	432	4B	5	**66,45**
607933	32	44	30	78	24	421	4B	5	**70,10**

08 1/2”

Cap cheie tubulara impact 1/2" 6 laturi, scurta

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *hexagon interior confrom Hexagon DIN/ISO 691*





1/2" 12,5mm

OZAT 2000 LTD.

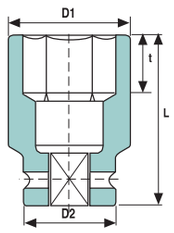
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
08M8	8	15	25	38	4	60	**31,24**
08M9	9	16	25	38	4	85	**31,24**
08M10	10	17	25	38	5	90	**31,24**
08M11	11	19	25	38	5	90	**31,24**
08M12	12	20	25	38	6	90	**31,24**
08M13	13	21	25	38	6	90	**31,24**
08M14	14	22	25	38	7	90	**31,24**
08M15	15	24	30	38	7	130	**34,72**
08M16	16	25	30	38	8	130	**34,72**
08M17	17	26	30	38	9	130	**34,72**
08M18	18	27.5	30	38	9	130	**34,72**
0812M19	19	27.5	30	38	9.5	130	**34,72**
08M20	20	30	30	38	10	130	**41,46**
08M21	21	30	30	38	11	130	**41,46**
08M22	22	32	30	38	11	140	**44,20**
08M23	23	32	30	38	13	140	**52,19**
08M24	24	35	30	45	13	170	**52,19**
08M25	25	35	30	45	13	170	**52,19**
08M26	26	38	30	50	13	200	**55,82**
0817M27	27	38	30	50	13	260	**71,44**
08M28	28	38	30	50	14	260	**71,44**
08M29	29	41	30	50	16.5	290	**74,62**
0819M30	30	41	30	50	16.5	290	**74,62**
08M31	31	44	30	50	16.5	290	**74,62**
08M32	32	44	30	50	17	300	**74,62**
08M33	33	45	30	50	17	300	**75,51**
08M34	34	49	35	46	19	300	**87,35**
0822M35	35	49	38	50	19	300	**104,60**
08M36	36	49	35	50	19	300	**104,60**
08M37	37	52	38	50	19	400	**112,75**
0824M38	38	52	38	50	22	400	**117,71**
0806	3/8"	16	22	38	4	85	**31,24**
0807	7/16"	18	25	38	6	90	**31,24**
0808	1/2"	20	25	38	6	90	**31,24**
0809	9/16"	22	25	38	7	90	**31,24**
0810	5/8"	25	25	38	8	80	**34,72**
0811	11/16"	25	25	38	9	80	**34,72**
0812M19inch	3/4"	27.5	30	38	9.5	130	**34,72**
0813	13/16"	30	30	38	11	130	**41,46**
0814	7/8"	32	30	38	13	140	**44,20**
0815	15/16"	35	30	38	13	160	**52,19**
0816	1"	35	30	38	13	200	**55,82**
0817M27inch	1 1/16"	38	30	50	13	260	**71,44**
0818	1 1/8"	38	30	40	16.5	220	**74,62**
0819M30inch	1 3/16"	41	30	50	16.5	290	**74,62**
0820	1 1/4"	44	35	40	17	240	**74,62**
0821	1 5/16"	45	35	43	19	260	**87,35**
0822M35inch	1 3/8"	49	38	50	19	300	**104,60**
0823	1 7/16"	49	38	50	19	300	**112,75**
0824M38inch	1 1/2"	52	38	50	22	400	**117,71**

08L 1/2”

Cap cheie tubulara impact 1/2" 6 laturi, lunga

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *hexagon interior confrom Hexagon DIN/ISO 691*





1/2" 12,5mm

OZAT 2000 LTD.

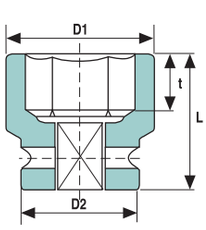
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
08M8L	8	15	25	78	4	160	**56,78**
08M9L	9	16	25	78	4	160	**56,78**
08M10L	10	17	25	78	5	160	**56,78**
08M11L	11	19	25	78	5	160	**56,78**
08M12L	12	20	25	78	6	170	**56,78**
08M13L	13	21	25	78	6	170	**59,96**
08M14L	14	22	25	78	7	170	**59,96**
08M15L	15	24	30	78	7	240	**63,15**
08M16L	16	25	30	78	8	250	**63,15**
08M17L	17	26	30	78	9	250	**63,15**
08M18L	18	27.5	30	78	9	260	**63,15**
0812M19L	19	28	30	78	9.5	250	**63,15**
08M20L	20	30	30	78	10	280	**68,03**
08M21L	21	30	30	78	11	250	**73,88**
08M22L	22	32	30	78	11	280	**73,88**
08M23L	23	32	30	78	13	280	**76,25**
08M24L	24	35	30	78	13	300	**80,25**
08M25L	25	35	30	78	13	300	**90,54**
08M26L	26	38	30	78	13	380	**90,54**
0817M27L	27	38	30	78	13	430	**90,54**
08M28L	28	38	30	78	14	430	**99,42**
08M29L	29	41	30	78	16.5	430	**118,82**
0819M30L	30	41	30	78	16.5	430	**118,82**
08M31L	31	44	30	78	16.5	500	**125,92**
08M32L	32	44	30	78	17	500	**125,92**
08M33L	33	45	30	78	17	550	**132,07**
08M34L	34	49	35	78	19	600	**132,07**
0822M35L	35	49	38	78	19	600	**147,69**
08M36L	36	49	35	78	19	600	**147,69**
08M37L	37	52	38	78	19	790	**162,49**
0824M38L	38	52	38	78	22	790	**162,49**
0806L	3/8"	16	22	78	4	140	**56,78**
0807L	7/16"	18	22	78	6	140	**56,78**
0808L	1/2"	20	22	78	6	140	**59,96**
0809L	9/16"	22	25	78	7	200	**59,96**
0810L	5/8"	25	25	78	8	200	**63,15**
0811L	11/16"	25	25	78	9	190	**63,15**
0812M19Linch	3/4"	28	30	78	9.5	250	**63,15**
0813L	13/16"	30	30	78	11	280	**68,03**
0814L	7/8"	32	30	78	13	280	**73,88**
0815L	15/16"	35	30	78	13	300	**80,25**
0816L	1"	35	30	78	13	380	**90,54**
0817M27Linch	1 1/16"	38	30	78	13	430	**90,54**
0818L	1 1/8"	38	30	78	16.5	480	**99,42**
0819M30Linch	1 3/16"	41	30	78	16.5	430	**118,82**
0820L	1 1/4"	44	35	78	17	500	**125,92**
0821L	1 5/16"	45	35	78	19	550	**132,07**
0822M35Linch	1 3/8"	49	38	78	19	600	**147,69**
0823L	1 7/16"	49	38	78	19	600	**162,49**
0824M38Linch	1 1/2"	52	38	78	22	790	**162,49**

08K 1/2”

Cap cheie tubulara impact cu perete gros 1/2", 6 laturi

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*





OZAT 2000 LTD.

1/2" 12,5mm

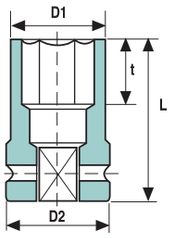
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
08M17K	117	30	30	45	11	170	**47,97**
0812M19K	19	33	30	45	13	190	**49,16**
0812M19Kinch	3/4"	33	30	45	13	190	**49,16**

08T 1/2”

Cap cheie tubulara impact cu pereti subtiri 1/2" 6 laturi, scurta

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *hexagon interior confrom Hexagon DIN/ISO 691*





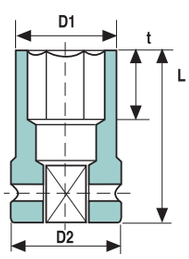
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
08M13T	13	20.5	25	38	38	70	**43,75**
08M14T	14	21.5	25	38	38	72	**43,75**
08M15T	15	23.5	30	38	38	110	**43,75**
08M16T	16	24.5	30	38	38	110	**48,41**
08M17T	17	25	30	38	38	110	**48,41**
08M18T	18	25	30	38	38	110	**48,41**
0812M19T	19	27	30	38	38	110	**48,41**
08M20T	20	28	30	38	38	110	**61,00**
08M21T	21	29.5	30	38	38	119	**62,48**
08M22T	22	30	30	38	38	119	**65,59**
08M23T	23	31.5	30	38	38	140	**67,07**
08M24T	24	33	30	45	45	160	**74,92**
0809T	9/16"	21.5	24	38	38	72	**43,75**
0810T	5/8"	24.5	25	38	38	70	**48,41**
0811T	11/16"	24.5	25	38	38	70	**48,41**
0812M19Tinch	3/4"	27	30	38	38	110	**48,41**
0813T	13/16"	28	30	38	38	110	**62,48**
0814T	7/8"	30	30	38	38	120	**67,07**
0815T	15/16"	33	30	38	38	160	**74,92**

08LT 1/2”

Cap cheie tubulara impact cu pereti subtiri 1/2" 6 laturi, lunga

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *hexagon interior confrom Hexagon DIN/ISO 691*





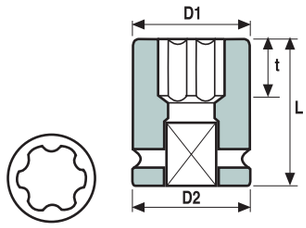
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
08M13LT	13	20.5	25	78	6	240	**92,24**
08M14LT	14	21.5	25	78	7	240	**92,24**
08M15LT	15	23.5	30	78	7	240	**92,24**
08M16LT	16	24.5	30	78	8	240	**92,24**
08M17LT	17	25	30	78	9	240	**92,24**
08M18LT	18	25	30	78	9	230	**95,35**
0812M19LT	19	27	30	78	9.5	230	**95,35**
08M20LT	20	28	30	78	10	230	**104,60**
08M21LT	21	29.5	30	78	11	230	**113,49**
08M22LT	22	30	30	78	11	230	**117,11**
08M23LT	23	32	30	78	13	230	**123,41**
08M24LT	24	33	30	78	13	230	**123,41**
0809LT	9/16"	21.5	25	78	7	240	**92,24**
0810LT	5/8"	24.5	25	78	8	240	**92,24**
0811LT	11/16"	24.5	25	78	9	230	**95,35**
0812M19LTinch	3/4"	27	30	78	9.5	230	**95,35**
0813LT	13/16"	28	30	78	11	230	**104,60**
0814LT	7/8"	30	32	78	13	230	**113,49**
0815LT	15/16"	33	30	78	13	230	**123,41**

08SD 1/2”

Cap cheie tubulara impact cu profil de protectie 1/2" 6 laturi, scurta

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*





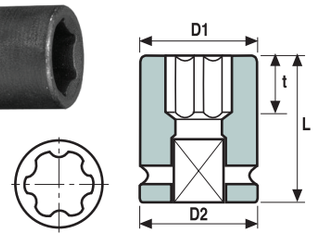
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
08M13SD	13	21	25	31	6	70	**42,05**
08M14SD	14	22	25	31	7	70	**42,05**
08M15SD	15	24	30	33	7	120	**42,05**
08M16SD	16	25	30	33	8	120	**60,11**
08M17SD	17	26	30	35	9	130	**60,11**
08M18SD	18	28	30	35	9	130	**60,11**
0812M19SD	19	28	30	35	9.5	130	**60,11**
08M20SD	20	30	30	35	10	130	**66,03**
08M21SD	21	30	30	35	11	130	**66,03**
08M22SD	22	32	30	37	11	170	**66,03**
0808SD	1/2"	20	22	31	6	70	**42,05**
0809SD	9/16"	22	25	31	7	70	**42,05**
0810SD	5/8"	25	25	33	8	90	**42,05**
0811SD	11/16"	25	25	35	9	110	**60,11**
0812M19SDinch	3/4"	28	30	35	9.5	130	**60,11**
0813SD	13/16"	30	30	35	11	130	**66,03**
0814SD	7/8"	32	30	39	13	17	**71,96**

08SDL 1/2”

Cap cheie tubulara impact cu profil de protectie 1/2" 6 laturi, lunga

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*





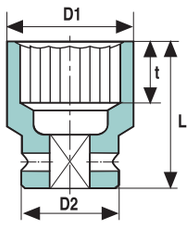
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
08M13SDL	13	21	25	78	6	230	**79,28**
08M14SDL	14	22	25	78	7	230	**79,28**
08M15SDL	15	24	30	78	7	320	**79,28**
08M16SDL	16	25	30	78	8	320	**84,10**
08M17SDL	17	26	30	78	9	320	**84,10**
08M18SDL	18	28	30	78	9	320	**84,10**
0812M19SDL	19	28	30	78	9.5	320	**84,10**
08M20SDL	20	30	30	78	10	320	**84,10**
08M21SDL	21	30	30	78	11	320	**92,31**
08M22SDL	22	32	30	78	11	330	**92,31**
0808SDL	1/2"	20	22	78	6	230	**79,28**
0809SDL	9/16"	22	25	78	7	230	**79,28**
0810SDL	5/8"	25	25	78	8	230	**79,28**
0811SDL	11/16"	25	25	78	9	230	**84,10**
0812M19SDLinch	3/4"	28	30	78	9.5	320	**84,10**
0813SDL	13/16"	30	30	78	11	320	**92,31**
0814SDL	7/8"	32	30	78	13	330	**100,75**

08SDH 1/2”

Cap cheie tubulara impact 1/2" 12 laturi, scurta

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *dublu hexagon interior confrom DIN 475/2*





1

OZAT 2000 LTD.

1/2" 25mm

	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
08M17DH	17	26	30	38	9	130	**54,26**
08M18DH	18	27.5	30	38	9	130	**54,26**
0812M19DH	19	27.5	30	38	9.5	130	**60,33**
08M20DH	20	30	30	38	10	130	**60,33**
08M21DH	21	30	30	38	11	140	**60,33**
08M22DH	22	32	30	38	11	140	**60,33**
08M23DH	23	32	30	38	13	170	**60,48**
08M24DH	24	35	30	45	13	170	**65,15**
08M25DH	25	35	30	45	13	200	**65,15**
08M26DH	26	38	30	50	13	260	**69,59**
0817M27DH	27	38	30	50	13	260	**89,13**
08M28DH	28	38	30	50	14	290	**89,13**
08M29DH	29	41	30	50	16.5	290	**93,05**
0819M30DH	30	41	30	50	16.5	290	**93,05**
08M31DH	31	44	30	50	16.5	290	**93,05**
08M32DH	32	44	30	50	17	300	**93,05**
08M33DH	33	45	30	50	17	300	**108,90**
08M34DH	34	49	35	46	19	300	**130,36**
0822M35DH	35	49	38	50	19	300	**130,36**
08M36DH	36	49	35	50	19	300	**130,36**
08M37DH	37	52	38	47	19	400	**140,36**
0824M38DH	38	52	38	50	22	400	**146,87**
0811DH	11/16"	25	25	38	9	130	**54,26**
0812M19DHinch	3/4"	27.5	30	38	9.5	130	**60,33**
0813DH	13/16"	30	30	38	11	140	**60,33**
0814DH	7/8"	32	30	38	13	160	**60,33**
0815DH	15/16"	35	30	38	13	200	**65,15**
0816DH	1"	35	30	38	13	260	**69,59**
0817M27DHinch	1 1/16"	38	30	50	13	220	**89,13**
0818DH	1 1/8"	38	30	40	16.5	290	**93,05**
0819M30DHinch	1 3/16"	41	30	50	16.5	300	**93,05**
0820DH	1 1/4"	44	35	40	17	300	**93,05**
0821DH	1 5/16"	45	35	43	19	300	**108,90**
0822M35DHinch	1 3/8"	49	38	50	19	300	**130,36**
0823DH	1 7/16"	49	38	50	19	400	**140,36**
0824M38DHinch	1 1/2"	52	38	50	22	400	**146,87**

231/4P.1

Protectie de plastic pentru 231P



UNIOR

616767	17	12	1E	5	**4,18**
616768	19	13	1E	5	**4,18**
616769	21	13	1E	5	**4,18**

231/4PPB

Trusa capete chei tubulare 1/2" de impact pentru jante de aliaj in cutie de plastic

- *Dimensiunea cutiei : 197 x 167 x 47*



UNIOR

619965	17 - 21 / 3	920	1G	1	**284,67**

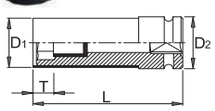
231/4P(17, 19, 21), **981PBM1**(197 x 167 x 47)

231/4PL

Capete chei tubulare de impact 1/2" pentru jante din aliaj, varianta lunga

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*
- *cu protectie din plastic*





UNIOR

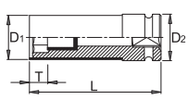
		D1	D2	L	T				
619015	17	27	25	130	24	305	4B	5	**122,05**
619016	19	29	30	130	24	360	4B	5	**128,62**
619017	21	31	30	130	24	405	4B	5	**136,45**

231/4P

Capete de impact 1/2" pentru roti din aliaj

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*
- *cu protectie din plastic*





UNIOR

		D1	D2	L	T				
616763	17	27	30	85	14	225	4B	5	**76,62**
616764	19	29	30	85	15	237	4B	5	**76,62**
616765	21	31	30	85	17	262	4B	5	**77,73**

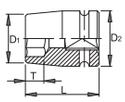


231/4TX

Adaptor de impact cu impact TX interior 1/2"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*





UNIOR

	D1	D2	L	T				
612880	E 10	15	25	38	7.5	90	4B	5	**37,75**
612881	E 12	16	25	38	8.5	90	4B	5	**38,43**
612882	E 14	18.5	25	38	10	95	4B	5	**38,43**
612883	E 16	20	25	38	11	95	4B	5	**38,43**
612884	E 18	22	25	38	12	95	4B	5	**40,42**
612885	E 20	25	30	38	13.5	145	4B	5	**40,42**
612886	E 24	28.5	30	45	21	170	4B	5	**41,40**

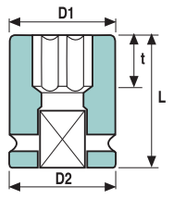
	A in mm		A in mm
TX 1	0,84	**TX 15**	3,26
TX 2	0,94	**TX 20**	3,84
TX 3	1,12	**TX 25**	4,40
TX 4	1,30	**TX 27**	4,96
TX 5	1,37	**TX 30**	5,49
TX 6	1,65	**TX 40**	6,60
TX 7	1,97	**TX 45**	7,70
TX 8	2,30	**TX 50**	8,79
TX 9	2,48	**TX 55**	11,17
TX 10	2,72	**TX 60**	13,20
		TX 70	15,49

08E 1/2”

Cap cheie tubulara impact 1/2", profil TORX interior

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *profil E pentru suruburi cu cap TORX®*





OZAT 2000 LTD.

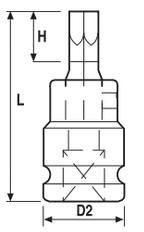
	Dimensiune TORX®	D1 mm	D2 mm	L mm	t min mm	Greutate gr	
08E10	E10	15	25	38	9	85	**35,76**
08E11	E11	15.5	25	38	9	85	**35,76**
08E12	E12	16	25	38	10	91	**35,76**
08E14	E14	18.5	25	38	12	91	**35,76**
08E16	E16	20	25	38	12	95	**35,76**
08E18	E18	22	25	38	12	95	**35,76**
08E20	E20	25	30	38	13	140	**46,19**
08E22	E22	26.5	30	45	15	158	**46,19**
08E24	E24	28.5	30	45	17	161	**46,19**

08T 1/2”

Cap cheie tubulara impact 1/2", profil TORX exterior

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *profil TX pentru suruburi cu cap TORX®*
- *realizat din 2 piese*





OZAT 2000 LTD.

	Dimensiune TORX®	D1 mm	D2 mm	L mm	H min mm	Greutate gr	
08T30	T30		25	57	3.19	110	**45,68**
08T40	T40		25	57	3.3	110	**45,68**
08T50	T50		25	57	4.57	110	**53,89**
08T55	T55		25	57	5.08	110	**53,89**
08T60	T60		30	60	7.62	160	**53,89**
08T71	T71		30	60	8.89	170	**134,73**

HT 1/2”

Bit pentru cap cheie tubulara impact 1/2", profil TORX exterior

- *profil TX pentru suruburi cu cap TORX®*



OZAT 2000 LTD.

	Dimensiune TORX®	HEX mm	
HT30	T30	11	**16,21**
HT40	T40	11	**16,21**
HT50	T50	11	**19,77**
HT55	T55	16	**19,77**
HT60	T60	16	**19,77**
HT70	T70	16	**94,24**

08H 1/2”

Cap cheie tubulara impact 1/2" suport pentru bit profil TORX exterior

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*



OZAT 2000 LTD.

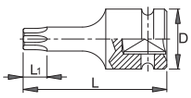
	Dimensiune TORX®	HEX mm	
08H11	T30 - T40 - T50	11	**33,53**
08H16	T55 - T60 - T70	16	**43,16**

231/4ATX

Adaptor de impact cu profil TX exterior 1/2"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*





UNIOR

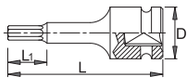
		D	L	L1				
612874	TX 30	25	55	3.3	86	4B	5	**47,14**
612875	TX 40	25	55	3.3	86	4B	5	**50,54**
612876	TX 45	25	55	3.6	86	4B	5	**51,08**
612877	TX 50	25	55	4.5	92	4B	5	**51,08**
612878	TX 55	25	55	5	95	4B	5	**62,31**
612879	TX 60	25	55	7.2	105	4B	5	**68,49**
618761	TX 70	25	55	8.6	111	4B	5	**71,46**

231/4AHX

Capete chei tubulare de impact cu profil hexagonal exterior 1/2"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*





UNIOR

		D	L	L1				
615218	5	25	75	15	85	4B	5	**42,37**
615219	6	25	75	15	93	4B	5	**42,37**
615220	8	25	75	25	95	4B	5	**42,37**
615221	10	25	75	25	114	4B	5	**42,37**
615222	12	25	75	25	130	4B	5	**42,37**
615223	14	25	75	25	148	4B	5	**42,37**
615224	17	25	75	25	183	4B	5	**47,92**
615225	19	25	75	25	207	4B	5	**54,34**

08H 1/2”

Cap cheie tubulara impact 1/2" suport pentru bit profil hexagon exterior

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*



OZAT 2000 LTD.

	Dimensiune	HEX	
	mm / inch	mm	
08H11	3-8 mm si 1/8"-5/16"	11	**33,53**
08H16	9-16 mm si 3/8"-5/8"	16	**43,16**
08H22	17-22 mm si 3/4"-7/8"	22	**55,15**

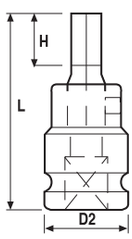
08V 1/2”

Cap cheie tubulara impact 1/2", profil hexagon exterior

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *profil hexagon exterior DIN/ISO 2963*
- *realizat din 2 piese*



OZAT 2000 LTD.



	Dimensiune	D2	L	t min	Greutate	
	mm / inch	mm	mm	mm	gr	
08M03V	3	25	54	5	90	**38,35**
08M04V	4	25	54	6	90	**38,35**
08M05V	5	25	54	8	90	**38,35**
08M06V	6	25	54	9	100	**38,35**
08M07V	7	25	54	9	100	**38,35**
08M08V	8	25	57	12	100	**38,35**
08M09V	9	25	57	16	100	**44,71**
08M10V	10	25	57	16	100	**44,71**
08M11V	11	30	57	18	150	**44,71**
08M12V	12	30	57	18	150	**44,71**
08M13V	13	30	57	21	150	**44,71**
08M14V	14	30	57	21	150	**44,71**
08M15V	15	30	57	26	150	**44,71**
08M16V	16	30	57	26	150	**44,71**
08M17V	17	30	57	26	150	**44,71**
08M18V	18	30	72	26	150	**44,71**
08M19V	19	30	72	26	150	**44,71**
0802V	1/8"	25	54	6	90	**38,35**
08025V	5/32"	25	54	6	90	**38,35**
0803V	3/16"	25	54	8	90	**38,35**
08035V	7/32"	25	54	9	90	**38,35**
0804V	1/4"	25	54	12	100	**38,35**
0805V	5/16"	25	54	12	100	**38,35**
0806V	3/8"	25	57	16	100	**44,71**
0807V	7/16"	25	57	18	100	**44,71**
0808V	1/2"	30	57	19	150	**44,71**
0809V	9/16"	30	57	21	150	**44,71**
0810V	5/8"	30	57	24	150	**44,71**

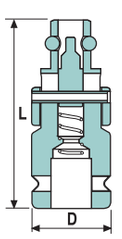
QACD08 1/2”

Adaptor de impact cu prindere rapida 1/2"

- *patrat de antrenare (interior) 3/8” DIN 3121 - forma G 10*
- *patrat exterior 3/8”*



OZAT 2000 LTD.



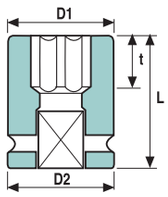
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
QACD08	1/2"	1/2"	25	60	120	**459,64**

08AP 1/2”

Cap cheie tubulara impact cu profil protectie de aluminiu 1/2" 6 laturi, scurta

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *hexagon interior confrom Hexagon DIN/ISO 691*
- *cu protectie pentru genti de aluminiu*





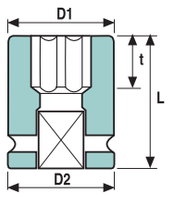
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
08M17AP	17	26	30	50	25	110	**99,64**
0812M19AP	19	28	30	50	25	110	**99,64**
08014AP	20	33	30	50	25	130	**126,66**
08M21AP	21	30	30	50	25	110	**118,82**
0812M19APinch	3/4"	28	30	50	25	110	**99,64**
08013AP	13/16"	30	30	50	25	110	**118,82**
08014APinch	7/8"	33	30	50	25	130	**126,74**

08LAP 1/2”

Cap cheie tubulara impact cu profil protectie de aluminiu 1/2" 6 laturi, lunga

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *hexagon interior confrom Hexagon DIN/ISO 691*
- *cu protectie pentru genti de aluminiu*





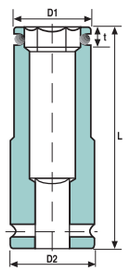
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
08M17LAP	17	26	30	85	25	200	**118,96**
0812M19LAP	19	28	30	85	25	210	**141,54**
08M21LAP	21	30	30	85	25	220	**155,24**
0812M19LAPinch	3/4"	28	30	85	25	210	**118,96**
0813LAP	13/16"	30	30	85	25	220	**141,54**
0814LAP	7/8"	33	30	85	25	250	**155,24**

08BB 1/2”

Cap cheie tubulara de impact cu inel de retinere 1/2", varianta scurta

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *hexagon interior confrom Hexagon DIN/ISO 691*
- *cu inel de retinere pentru suruburi*





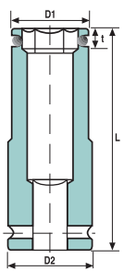
	Dimensiune	D1	D2	L	t min	
	MM/inch	mm	mm	mm	mm	
08M8BB	8	15	25	38	4	**50,12**
08M9BB	9	16	25	38	4	**50,12**
08M10BB	10	17	25	38	5	**50,12**
08M11BB	11	19	25	38	5	**50,12**
08M12BB	12	20	25	38	6	**50,12**
08M13BB	13	21	25	38	6	**50,12**
08M14BB	14	22	25	38	7	**50,12**
08M15BB	15	24	30	38	7	**53,37**
08M16BB	16	25	30	38	8	**53,37**
08M17BB	17	26	30	38	9	**53,37**
08M18BB	18	28	30	38	9	**53,37**
0812M19BB	19	28	30	38	10	**53,37**
08M20BB	20	30	30	38	10	**81,06**
08M21BB	21	30	30	38	11	**81,06**
08M22BB	22	32	30	38	11	**81,06**
08M23BB	23	32	30	38	13	**83,50**
08M24BB	24	35	30	45	13	**83,50**
0806BB	3/8"	16	22	38	4	**50,12**
0807BB	7/16"	18	22	38	6	**50,12**
0808BB	1/2"	20	22	38	6	**50,12**
0809BB	9/16"	22	25	38	7	**50,12**
0810BB	5/8"	25	25	38	8	**53,37**
0811BB	11/16"	25	25	38	9	**53,37**
0812M19BBinch	3/4"	28	30	38	10	**53,37**
0813BB	13/16"	30	30	38	11	**83,50**
0814BB	7/8"	32	30	38	13	**83,50**
0815BB	15/16"	35	30	38	13	**83,50**

08LBB 1/2”

Cap cheie tubulara de impact cu inel de retinere 1/2", varianta lunga

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *hexagon interior confrom Hexagon DIN/ISO 691*
- *cu inel de retinere pentru suruburi*





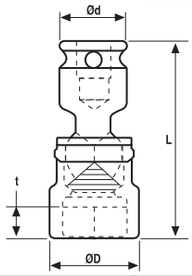
	Dimensiune	D1	D2	L	t min	
	MM/inch	mm	mm	mm	mm	
08M8LBB	8	15	25	78	4	**102,01**
08M9LBB	9	16	25	78	4	**102,01**
08M10LBB	10	17	25	78	5	**102,01**
08M11LBB	11	19	25	78	5	**102,01**
08M12LBB	12	20	25	78	6	**102,01**
08M13LBB	13	21	25	78	6	**105,19**
08M14LBB	14	22	25	78	7	**105,19**
08M15LBB	15	24	30	78	7	**108,16**
08M16LBB	16	25	30	78	8	**108,16**
08M17LBB	17	26	30	78	9	**108,16**
08M18LBB	18	28	30	78	9	**108,16**
0812M19LBB	19	28	30	78	10	**108,16**
08M20LBB	20	30	30	78	10	**122,44**
08M21LBB	21	30	30	78	11	**132,88**
08M22LBB	22	32	30	78	11	**137,18**
08M23LBB	23	32	30	78	13	**137,18**
08M24LBB	24	35	30	78	13	**144,43**
0806LBB	3/8"	16	22	78	4	**102,01**
0807LBB	7/16"	18	22	78	6	**102,01**
0808LBB	1/2"	20	22	78	6	**105,19**
0809LBB	9/16"	22	25	78	7	**105,19**
0810LBB	5/8"	25	25	78	8	**108,16**
0811LBB	11/16"	25	25	78	9	**108,16**
0812M19LBB inch	3/4"	28	30	78	10	**108,16**
0813LBB	13/16"	30	30	78	11	**132,88**
0814LBB	7/8"	32	30	78	13	**137,18**
0815LBB	15/16"	35	30	78	13	**144,43**

UB08 1/2”

Cap cheie tubulara de impact articulata 1/2" 6 laturi varianta scurta

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *hexagon interior confrom Hexagon DIN/ISO 691*





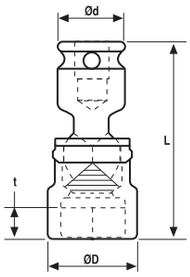
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
UB08M13	13	21	30	70	6	150	**188,92**
UB08M14	14	22	30	70	7	150	**188,92**
UB08M15	15	24	30	70	7	160	**188,92**
UB08M16	16	25	30	70	8	160	**192,25**
UB08M17	17	26	30	70	9	170	**203,73**
UB08M18	18	27.5	30	70	9	180	**203,73**
UB08M19	19	27.5	30	70	9.5	180	**203,73**
UB08M20	20	30	30	70	10	180	**205,43**
UB08M21	21	30	30	70	11	180	**205,43**
UB08M22	22	32	30	70	11	200	**210,39**
UB08M23	23	32	30	70	13	200	**215,35**
UB08M24	24	35	30	70	13	210	**228,53**
UB0809	9/16"	22	30	70	7	160	**188,92**
UB0810	5/8"	25	30	70	8	160	**192,25**
UB0811	11/16"	25	30	70	9	170	**203,73**
UB0812	3/4"	27.5	30	70	9.5	180	**203,73**
UB0813	13/16"	30	30	70	11	180	**205,43**
UB0814	7/8"	32	30	70	13	200	**212,91**
UB0815	15/16"	35	30	70	13	210	**228,53**

UB08L 1/2”

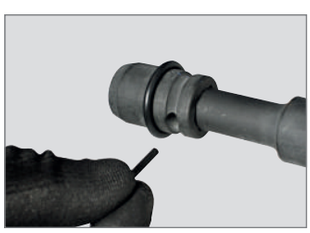
Cap cheie tubulara de impact articulata 1/2" 6 laturi varianta lunga

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*
- *hexagon interior confrom Hexagon DIN/ISO 691*





	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
UB08M13L	13	21	30	150	6	230	**206,17**
UB08M14L	14	22	30	150	7	230	**206,17**
UB08M15L	15	24	30	150	7	250	**206,17**
UB08M16L	16	25	30	150	8	250	**209,50**
UB08M17L	17	26	30	150	9	300	**221,05**
UB08M18L	18	27.5	30	150	9	300	**221,05**
UB08M19L	19	27.5	30	150	9.5	300	**221,05**
UB08M20L	20	30	30	150	10	300	**222,75**
UB08M21L	21	30	30	150	11	300	**222,75**
UB08M22L	22	32	30	150	11	350	**227,64**
UB08M23L	23	32	30	150	13	350	**232,60**
UB08M24L	24	35	30	150	13	370	**245,78**
UB0809L	9/16"	22	30	150	7	230	**206,17**
UB0810L	5/8"	25	30	150	8	250	**209,50**
UB0811L	11/16"	25	30	150	9	300	**221,05**
UB0812L	3/4"	27.5	30	150	9.5	300	**221,05**
UB0813L	13/16"	30	30	150	11	300	**222,75**
UB0814L	7/8"	32	30	150	13	350	**232,60**
UB0815L	15/16"	35	30	150	13	370	**245,78**



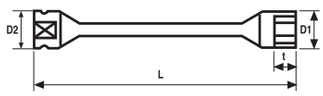


08Q 1/2”

Cap cheie tubulara de torsiune 1/2" 6 laturi

- *ideal atunci cand strangerea piulitelor la roti trebuie realizata la un cuplu prestabilit*
- *absoarbe cu ajutorul torsiunii toata puterea suplimentara generata de cheia de impact*
- *realizata din otel de calitate superioara*





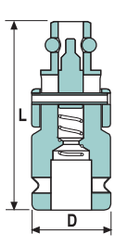
	Dimensiune	D1	D2	L	t min	Torsiune	Greutate	
	MM/inch	mm	mm	mm	mm	Nm	gr	
08M17Q075	17 mm	26	30	205	24	75	290	**255,84**
08M17Q095	17 mm	26	30	205	24	95	300	**255,84**
08M17Q110	17 mm	26	30	205	24	110	320	**255,84**
08M19Q075	19 mm	28	30	205	24	75	290	**258,88**
08M19Q090	19 mm	28	30	205	24	90	300	**258,88**
08M19Q110	19 mm	28	30	205	24	110	330	**258,88**
08M19Q135	19 mm	28	30	205	24	135	360	**258,88**
08M21Q080	21 mm	30	30	205	24	80	290	**283,60**
08M21Q110	21 mm	30	30	205	24	110	330	**283,60**

QACD08 1/2”

Adaptor de impact cu prindere rapida 1/2"

- *patrat de antrenare (interior) 3/8” DIN 3121 - forma G 10*
- *patrat exterior 3/8”*





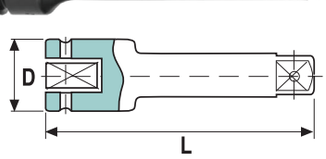
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
QACD08	1/2"	1/2"	25	60	120	**459,64**

E08 1/2”

Prelungitor de impact 1/2"

- *patrat de antrenare 1/2” DIN 3121 - G 12,5*





	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
E0803	1/2"	1/2"	30	75	170	**59,96**
E0805	1/2"	1/2"	30	125	240	**73,29**
E0810	1/2"	1/2"	30	250	470	**86,69**

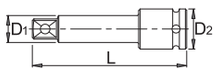
231.4/4

Prelungitor lung de impact 1/2"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*

1/2"
1/2"





UNIOR

		L	D1	D2				
603978	1/2"	75	16.9	25	148	1E	5	**48,94**
603977	1/2"	125	16.9	25	230	1E	5	**59,01**

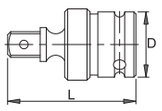
231.6/4

Intermediar cardanic de impact 1/2"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*

1/2"
1/2"





UNIOR

		D	L				
609460	1/2"	32	60	209	1E	5	**114,70**

U08 1/2"

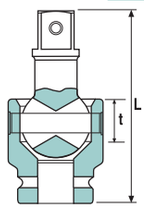
Intermediar cardanic de impact 1/2"

• patrat de antrenare 1/2" DIN 3121 - G 12,5

OZAT 2000 LTD.

1/2" 12,5 mm





	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
U0808	1/2"	1/2"	32	52	180	**132,07**

A08 1/2"

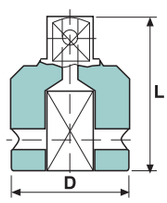
Adaptor de impact mama-tata 1/2"

• patrat de antrenare 1/2" DIN 3121 - G 12,5

OZAT 2000 LTD.

1/2" 12,5 mm





	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
A0806	1/2"	3/8"	25	38	70	**59,96**
A0810	1/2"	5/8"	25	35	90	**59,96**
A0812	1/2"	3/4"	30	48	180	**99,94**

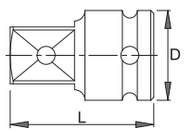
231.7/4

Adaptor de impact 1/2"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*

1/2" 3/8"
3/4"





UNIOR

		D	L				
603979	1/2" - 3/4"	30	48	169	1E	5	**62,80**
612120	1/2" - 3/8"	25	38	70	1E	5	**57,06**

AN08 1/2"

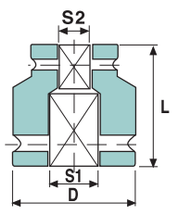
Adaptor de impact mama-mama 1/2"

• patrat de antrenare 1/2" DIN 3121 - G 12,5

OZAT 2000 LTD.

1/2" 12,5 mm



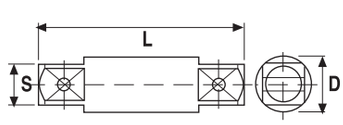


	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
AN0808	1/2"	1/2"	25	33	70	**59,96**
AN1008	5/8"	1/2"	35	41	170	**79,95**
AN1208	3/4"	1/2"	44	49	320	**139,91**

Z08 1/2"

Adaptor de impact tata-tata 1/2"





1/2" 12,5 mm

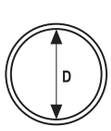
OZAT 2000 LTD.

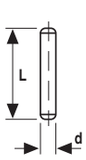
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
Z0802	1/2"	1/2"	16,8	50	63	**40,05**
Z0803	1/2"	1/2"	16,8	76	120	**40,05**
Z0805	1/2"	1/2"	16,8	127	230	**59,96**
Z0810	1/2"	1/2"	16,8	254	420	**99,94**

R08 1/2"

Accesorii de impact 1/2"





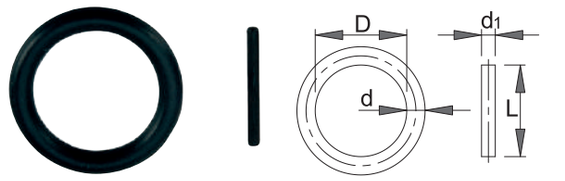


OZAT 2000 LTD.

	Patrat	Tip	Cap tubular	d	L	D	
				mm	mm	mm	
P0825	1/2"	pin	Ø 25 mm	3	20	-	**4,00**
P0830	1/2"	pin	Ø 30 mm	3	25	-	**4,00**
P0835	1/2"	pin	Ø 35 mm	3	30	-	**4,00**
R0825	1/2"	inel	Ø 25 mm	-	-	19	**6,66**
R0830	1/2"	inel	Ø 30 mm	-	-	24	**6,66**
R0835	1/2"	inel	Ø 35 mm	-	-	30	**6,66**

231.8/4

Acessorii de IMPACT 1/2"



UNIOR

		D	d	L	d1				
603997	10 - 14	20	4	20	3	8	1E	1	**18,68**
603998	15 - 32	25	4	25	3	9	1E	1	**27,58**

231/4PB1

Trusa capete chei tubulare de impact 1/2 in cutie de plastic

- *Dimensiunea cutiei : 244 x 207 x 59*



UNIOR

612506	15 - 30 / 12	1915	1G	1	**496,71**

231/4 6p(15, 17, 18, 19, 21, 22, 24, 27, 30), **231.4/4**(1/2" x 75), **231.8/4**(10 - 14, 15 - 32)

231/4PB2

Trusa capete chei tubulare de impact 1/2 in cutie de plastic

- *Dimensiunea cutiei : 244 x 207 x 59*



UNIOR

612507	15 - 30 / 12	3508	1G	1	**642,70**

231.4/4(1/2" x 75), **231.8/4**(10 - 14, 15 - 32), **231/4L6p**(15, 17, 18, 19, 21, 22, 24, 27, 30)

SET-08-01 1/2”

Trusa capete tubulare de impact scurte 1/2" 10-19 mm/10 piese



OZAT 2000 LTD.

	Componenta	
SET-08-01	10-19 mm/10 piese 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	**338,01**

231/4PB3

Trusa capete chei tubulare de impact 1/2 in cutie de plastic

- *Dimensiunea cutiei : 244 x 207 x 59*



UNIOR

612508	17 - 24 / 12	2810	1G	1	**569,49**

231/4 6p(17, 18, 19, 21, 22, 24), **231/4L6p**(17, 18, 19, 21, 22, 24)

231/4PB4

Trusa capete chei tubulare de impact 1/2 cu profil TX interior si exterior in cutie de plastic

- *Dimensiunea cutiei : 244 x 207 x 44*



UNIOR

615227	13	1551	1G	1	**679,72**

231/4TX(E 10, E 12, E 14, E 16, E 18, E 20, E 24), **231/4ATX**(TX 30, TX 40, TX 45, TX 50, TX 55, TX 60)

SET-08-13 1/2”

Trusa capete tubulare de impact scurte 1/2" 10-24 mm/5 piese



OZAT 2000 LTD.

	Componenta	
SET-08-13	10-24 mm/5 piese 10, 13, 17, 19, 24 mm	**197,06**

SET-08-04 1/2”

Trusa capete tubulare de impact lungi 1/2" 10-19 mm/10 piese



OZAT 2000 LTD.

	Componenta	
SET-08-04	10-19 mm/10 piese 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	**610,29**

Trusa capete tubulare de torsiune 1/2"

- *ideal atunci cand strangerea piulitelor la roti trebuie realizata la un cuplu prestabilit*
- *absoarbe cu ajutorul torsiunii toata puterea suplimentara generata de cheia de impact*
- *realizata din otel de calitate superioara*



	Componenta	
SET-014	**08Q 1/2”** 17x75, 17x95, 17x110, 19x75 mm	**1397,22**
SET-015	**08Q 1/2”** 19x90, 19x110, 19x135, 21x110, 17x75, 17x95 mm	**1629,30**
SET-016	**08Q 1/2”** 19x75, 19x90, 21x80, 17x95, 17x110, 19x90, 19x110, 21x110 mm	**1629,30**

SET-08-08 1/2”

Trusa capete tubulare de impact scurte 1/2" 3/8"-1.1/16"/14 piese



	Componenta	
SET-08-08	3/8"-1.1/16"/14 piese 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", prelungitor 125 mm **(E0805)**, intermediar cardanic 1/2" **(U0808)**, pin **(P0825, P0830)**, inel **(R0825, R0830)**	**600,30**

Trusa capete tubulare de impact scurte 1/2"



	Componenta	
SET-08-12	11-27 mm/16 piese 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27 mm, prelungitor 125 mm **(E0805)**, intermediar cardanic 1/2" **(U0808)**, pin **(P0825, P0830)**, inel **(R0825, R0830)**	**817,57**
SET-08-09	11-27 mm/16 piese 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27 mm, prelungitor 125 mm **(E0805)**, intermediar cardanic 1/2" **(U0808)**, pin **(P0825, P0830)**, inel **(R0825, R0830)**	**734,66**

SET-08-14 1/2”

Trusa capete tubulare de impact cu inel de retinere 1/2" 8-19 mm/7 piese



	Componenta	
SET-08-14	8-19 mm/7 piese 8, 10, 12, 13, 15, 17, 19 mm	**713,56**

SET-08-15 1/2”

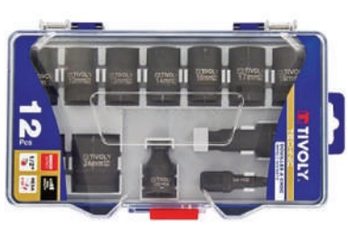
Trusa capete tubulare de impact lungi 1/2" 8-19 mm/7 piese



	Componenta	
SET-08-15	8-19 mm/7 piese 8, 10, 12, 13, 15, 17, 19 mm	**419,59**

11521470001

Trusa capete chei tubulare de impact 1/2” - 12 piese



	Dimensiune	
11521470001	8-24 mm / 12 piese	**348,30**

capate chei tubulare de impact 1/2": 8 - 10 - 13 - 14 - 16 - 17 - 19 - 21 - 24 mm
adaptor de impact cu prindere rapida: patrat interior 1/2” - hexagon interior 1/4”.
adaptor de impact: hexagon exterior 1/4“ - patrat exterior 1/2”; prelungitor de impact 1/2” 75 mm

TP-16 720/721

Trusa capete tubulare de impact scurte 1/2" 10-32 mm/16 piese

ISO 2725-3
ISO 2725-2



	Componenta	
019051	10-32 mm/16 piese	**1000,10**

capete tubulare de impact cu pereti subtiri: SW 10; 12; 13; 15; 16; 17; 18; 19; 22 mm
capete tubulare de impact: SW 24; 27; 30; 32 mm
antrenor cu clichet reversibil 1/2"
prelungitor cu cap sferic 1/2" x 125 mm
adaptor 1/4 "E 6.3 - 1/2" (Mp) x 50 mm

720 KS 15

Trusa capete chei tubulare de impact 1/2”

- *cutie plastic*
- *conform DIN 3129*



	Dimensiune	Ambalare	
072802	15 piese	1	**768,95**

capete chei tubulare scurte de impact 1/2"
SW 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30

720 SG 12

Trusa capete chei tubulare de impact 1/2”

- *cutie plastic*
- *conform DIN 3129*



	Dimensiune	Ambalare	
072801	12 piese	1	**768,95**

capete chei tubulare scurte de impact 1/2"
SW 9; 10; 11; 13; 14; 17; 19; 22; 24; 27
intermediar cardanic 1/2” x 74 mm
prelungitor 1/2" x 150 mm

725 H 9

Trusa capete chei tubulare cu profil hexagon exterior de impact 1/2”

- *cutie plastic*



	Dimensiune	Ambalare	
072851	9 piese	1	**614,85**

capete chei tubulare de impact 1/2" cu profil hexagon exterior
HX 4,0; 5,0; 6,0; 8,0; 10,0; 12,0; 14,0; 17,0; 19,0

720 KLS 21

Trusa capete chei tubulare de impact 1/2”

- *cutie plastic*
- *conform DIN 3129*



	Dimensiune	Ambalare	
072803	21 piese	1	**1385,34**

capete chei tubulare scurte de impact 1/2"
SW 10; 13; 14; 16; 17; 18; 18; 19; 21; 22; 24; 27
capete chei tubulare lungi de impact 1/2"
SW 13; 16; 17; 18; 19; 21; 22; 24; 27
prelungitor cu cap sferic 1/2" x 150 mm

720 E/TX 16

Trusa capete chei tubulare cu profil TORX® exterior/interior de impact 1/2”

- *cutie plastic*



	Dimensiune	Ambalare	
072841	16 piese	1	**815,18**

capete tubulare de impact cu profil TORX® interior (720 E):
E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24
capete tubulare de impact cu profil TORX® exterior (724):
TX 40, TX 45, TX 47, TX 50, TX 55, TX 60, TX 70

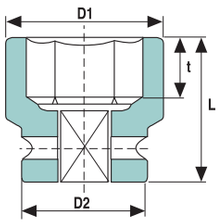


10M 5/8”

Cap cheie tubulara de torsiune 5/8" 6 laturi, scurt

• patrat de antrenare 5/8”





5/8” 16mm OZAT 2000 LTD.

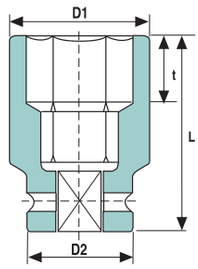
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
10M13	13	23	35	35	6	150	**58,33**
10M14	14	24	35	35	7	150	**58,33**
10M15	15	26	35	35	7	150	**58,33**
10M16	16	26	35	35	8	150	**58,33**
10M17	17	28	35	38	9	180	**58,33**
10M18	18	30	35	38	9	180	**58,33**
1012M19	19	31	35	38	9.5	180	**58,33**
10M20	20	32	35	38	10	180	**58,33**
10M21W07	21	33	35	38	11	180	**58,33**
10M22	22	35	35	40	11	190	**59,67**
10M23	23	35	35	40	13	190	**63,89**
10M24	24	35	35	40	13	190	**65,00**
10M25	25	38	35	41	13	200	**69,29**
10M26	26	38	35	41	13	200	**71,59**
1017M27	27	41	35	42	13	220	**77,73**
10M28	28	41	35	42	14	220	**77,73**
10M29	29	41	35	45	16.5	220	**93,79**
1019M30	30	44	35	45	16.5	240	**97,50**
10M31	31	44	35	46	16.5	240	**97,50**
10M32	32	44	35	47	17	240	**108,97**
10M33	33	44	35	47	17	240	**108,97**
10M34	34	49	35	50	19	320	**124,22**
1022M35	35	49	35	51	19	320	**124,22**
10M36	36	52	35	51	19	400	**124,22**
10M37	37	54	44	51	19	420	**138,66**
1024M38	38	54	44	51	22	420	**138,66**
1008	1/2"	23	35	35	6	150	**58,33**
1009	9/16"	24	35	35	7	150	**58,33**
1010	5/8"	26	35	35	8	150	**58,33**
1011	11/16"	29	35	38	9	180	**58,33**
1012M19inch	3/4"	31	35	38	9.5	180	**58,33**
1013	13/16"	33	35	38	11	180	**58,33**
1014	7/8"	35	35	40	13	190	**61,59**
1015	15/16"	35	35	40	13	190	**65,00**
1016	1"	38	35	41	13	200	**69,29**
1017M27inch	1 1/16"	41	35	42	13	220	**77,73**
1018	1 1/8"	41	35	45	16.5	220	**93,79**
1019M30inch	1 3/16"	44	35	45	16.5	240	**97,50**
1020	1 1/4"	44	35	46	17	240	**97,50**
1021	1 5/16"	49	35	49	19	320	**108,97**
1022M35inch	1 3/8"	49	35	51	19	320	**124,22**
1023	1 7/16"	52	44	51	19	400	**129,70**
1024M38inch	1 1/2"	54	44	51	22	420	**138,66**

10L 5/8”

Cap cheie tubulara de torsiune 5/8" 6 laturi, lung

• patrat de antrenare 5/8”





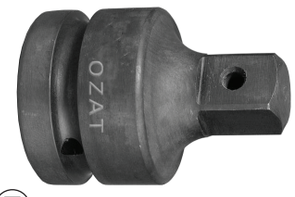
5/8” 16mm OZAT 2000 LTD.

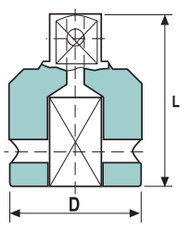
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
10M13L	13	23	35	88	6	460	**96,76**
10M14L	14	24	35	88	7	460	**96,76**
10M15L	15	26	35	88	7	460	**96,76**
10M16L	16	26	35	88	8	460	**96,76**
10M17L	17	28	35	88	9	460	**96,76**
10M18L	18	30	35	88	9	460	**96,76**
1012M19L	19	31	35	88	9.5	460	**96,76**
10M20L	20	32	35	88	10	460	**102,38**
10M21L	21	33	35	88	11	460	**102,38**
10M22L	22	35	35	88	11	460	**102,38**
10M23L	23	35	35	88	13	460	**106,68**
10M24L	24	35	35	88	13	460	**115,48**
10M25L	25	38	35	88	13	500	**115,48**
10M26L	26	38	35	88	13	500	**119,93**
1017M27L	27	41	35	88	13	540	**124,22**
10M28L	28	41	35	88	14	540	**129,70**
10M29L	29	41	35	88	16.5	540	**129,70**
1019M30L	30	44	35	88	16.5	590	**129,70**
10M31L	31	44	35	88	16.5	590	**134,29**
10M32L	32	44	35	88	17	590	**134,29**
10M33L	33	44	35	88	17	590	**134,29**
10M34L	34	49	35	88	19	700	**136,88**
1022M35L	35	49	35	88	19	700	**136,88**
10M36L	36	52	35	88	19	750	**144,28**
10M37L	37	54	44	88	19	850	**151,02**
1024M38L	38	54	44	88	22	850	**151,02**
1008L	1/2"	23	35	88	6	460	**96,76**
1009L	9/16"	24	35	88	7	460	**96,76**
1010L	5/8"	26	35	88	8	460	**96,76**
1011L	11/16"	29	35	88	9	460	**96,76**
1012M19Linch	3/4"	31	35	88	9.5	460	**96,76**
1013L	13/16"	33	35	88	11	460	**102,38**
1014L	7/8"	35	35	88	13	460	**106,68**
1015L	15/16"	35	35	88	13	460	**108,97**
1016L	1"	38	35	88	13	500	**115,48**
1017M27Linch	1 1/16"	41	35	88	13	540	**124,22**
1018L	1 1/8"	41	35	88	16.5	540	**129,70**
1019M30Linch	1 3/16"	44	35	88	16.5	590	**129,70**
1020L	1 1/4"	44	35	88	17	590	**134,29**
1021L	1 5/16"	49	35	88	19	700	**136,88**
1022M35Linch	1 3/8"	49	35	88	19	700	**136,88**
1023L	1 7/16"	52	44	88	19	750	**144,28**
1024M38Linch	1 1/2"	54	44	88	22	850	**151,02**

A10 5/8”

Adaptor de impact mama-tata 5/8"

• patrat de antrenare 5/8”





5/8” 16mm OZAT 2000 LTD.

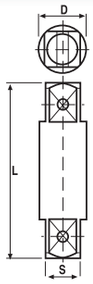
	Patrat antrenare		D	L	Greutate	
	interior	exterior	mm	mm	gr	
A1008	5/8"	1/2"	35	48	140	**79,95**
A1012	5/8"	3/4"	35	45	220	**99,94**

Z10 5/8”

Adaptor de impact tata-tata 5/8"

• patrat de antrenare 5/8”





5/8” 16mm OZAT 2000 LTD.

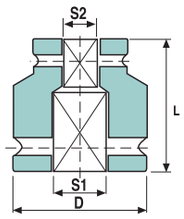
	Patrat antrenare		D	L	Greutate	
	interior	exterior	mm	mm	gr	
Z1002	5/8"	5/8"	21.1	50	160	**40,05**
Z1003	5/8"	5/8"	21.1	76	280	**40,05**
Z1006	5/8"	5/8"	21.1	152	330	**139,91**
Z1012	5/8"	5/8"	21.1	305	660	**200,03**

AN10 5/8”

Adaptor de impact mama-mama 5/8"

• *patrat de antrenare 5/8”*





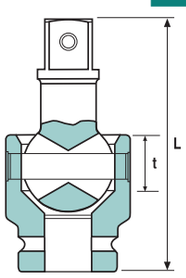
	Patrat antrenare		D	L	Greutate	
	interior	exterior	mm	mm	gr	
AN1008	5/8"	1/2"	35	41	170	**79,95**
AN1010	5/8"	5/8"	35	35	150	**79,95**
AN1210	3/4"	5/8"	44	50	370	**159,98**

U10 5/8”

Intermediar cardanic de impact 5/8”

• *patrat de antrenare 5/8”*





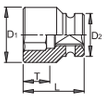
	Patrat antrenare		D	L	Greutate	
	interior	exterior	mm	mm	gr	
U1010	5/8"	5/8"	44	60	300	**226,60**

232/4 6p

Capete chei tubulare de impact 3/4"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*
- *in conformitate cu standardul ISO 2725-2(numai dimensiunile in mm)*



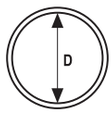


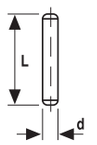
		D1	D2	L	T				
603980	17	31	44	50	12	374	1B	5	**82,31**
603981	19	33	44	50	14	387	1B	5	**82,31**
603982	21	35	44	50	14	381	1B	5	**84,55**
603983	22	37	44	50	14	400	1B	5	**84,55**
603984	24	39	44	50	16	401	1B	5	**84,55**
603985	27	43	44	54	23	410	1B	5	**84,64**
609403	28	44	44	54	23	403	1B	5	**84,64**
603986	30	47	44	54	23	438	1B	5	**84,64**
603987	32	50	44	56	23	481	1B	5	**85,23**
603988	33	51	44	56	23	497	1B	5	**88,58**
603989	36	54	44	56	23	535	1B	5	**90,67**
603990	41	60	44	58	24	634	1B	1	**112,95**
603991	46	67	44	63	27	813	1B	1	**144,86**

PR10 5/8”

Inel cu stift de siguranta 5/8"







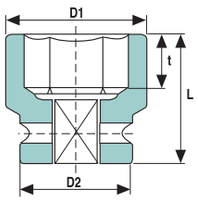
	Patrat	Tip	Q	d	L	D	
				mm	mm	mm	
P1035	5/8"	pin	Ø 35 mm	3	30	-	**4,00**
P1044	5/8"	pin	Ø 44 mm	3	39	-	**4,00**
R1035	5/8"	inel	Ø 35 mm	-	-	28	**6,66**
R1044	5/8"	inel	Ø 44 mm	-	-	37	**6,66**

12S 3/4”

Cap cheie tubulara de impact 3/4" 6 laturi, scurt

• *patrat de antrenare 3/4” DIN 3121 - forma H20*
• *hexagon interior confrom DIN 475/2*





	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
12M13	13	25	44	45	6	290	**76,69**
12M14	14	25	44	45	7	290	**76,69**
12M15	15	29	44	45	7	290	**76,69**
12M16	16	29	44	45	8	290	**76,69**
12M17	17	29	44	45	9	290	**76,69**
12M18	18	32	44	45	9	290	**76,69**
1212M19	19	32	44	45	9.5	290	**78,40**
12M20	20	35	44	46	10	340	**83,06**
12M21	21	35	44	46	11	340	**83,06**
12M22	22	38	44	46	11	340	**83,06**
12M23	23	38	44	46	13	340	**83,06**
12M24	24	40	44	46	13	340	**83,06**
12M25	25	41	44	46	13	340	**87,80**
12M26	26	41	44	46	13	340	**87,80**
1217M27	27	41	44	48	13	380	**90,02**
12M28	28	44	44	48	14	380	**90,02**
12M29	29	44	44	52	16.5	380	**90,02**
1219M30	30	44	44	52	16.5	380	**90,02**
12M31	31	49	44	52	17	420	**99,05**
12M32	32	49	44	52	17	420	**99,05**
12M33	33	49	44	55	17	430	**118,82**
12M34	34	52	44	55	19	460	**122,37**
1222M35	35	52	44	55	19	460	**122,37**
12M36	36	52	44	56	19	460	**122,37**
12M37	37	54	44	56	19	490	**127,92**
1224M38	38	54	44	59	22	490	**127,92**
12M39	39	57	44	59	22	520	**143,99**
12M40	40	57	44	59	22	520	**147,91**
1226M41	41	57	44	59	22	520	**147,91**
12M42	42	60	44	59	22	550	**155,90**
1227M43	43	63	44	64	25	600	**155,90**
12M44	44	63	44	64	25	600	**168,79**
12M45	45	63	44	64	25.5	600	**190,92**
1229M46	46	67	44	64	25.5	850	**190,92**
12M47	47	67	54	64	25.5	850	**190,92**
12M48	48	67	54	67	27	910	**218,01**
1231M49	49	70	54	67	27	950	**218,01**
12M50	50	70	54	67	27	950	**218,01**
1232M51	51	73	54	67	27	1040	**231,64**
12M52	52	73	54	67	27	1040	**231,64**
1234M54	54	73	54	71	30	1040	**268,65**
12M55	55	78	54	71	30	1200	**279,90**
12M56	56	78	54	74	32	1200	**286,57**
1236M57	57	82	54	75	33	1320	**287,90**
12M58	58	82	54	75	33	1320	**293,30**
1237M59	59	82	54	75	33	1320	**293,30**
12M60	60	82	54	75	35	1320	**346,53**
12M61	61	86	54	75	35	1430	**399,83**

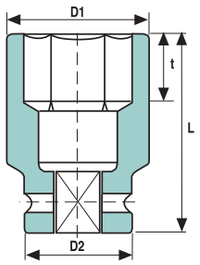
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1208	1/2"	24	44	45	6	290	**76,69**
1209	9/16"	25	44	45	7	290	**76,69**
1210	5/8"	29	44	45	8	290	**76,69**
1211	11/16"	29	44	45	9	290	**76,69**
1212M19inch	3/4"	32	44	45	9.5	290	**78,40**
1213	13/16"	35	44	46	11	340	**83,06**
1214	7/8"	38	44	46	13	340	**83,06**
1215	15/16"	40	44	46	13	340	**83,06**
1216	1"	41	44	46	13	340	**87,80**
1217M27inch	1 1/16"	41	44	48	13	380	**90,02**
1218	1 1/8"	44	44	52	16.5	380	**90,02**
1219M30inch	1 3/16"	44	44	52	16.5	380	**90,02**
1220	1 1/4"	49	44	52	17	420	**99,05**
1221	1 5/16"	49	44	55	19	430	**118,82**
1222M35inch	1 3/8"	52	44	55	19	460	**122,37**
1223	1 7/16"	52	44	56	19	460	**122,37**
1224M38inch	1 1/2"	54	44	59	22	490	**127,92**
1225	1 9/16"	57	44	59	22	520	**143,99**
1226M41inch	1 5/8"	57	44	59	22	520	**147,91**
1227M43inch	1 11/16"	63	44	64	25	600	**155,90**
1228	1 3/4"	63	44	64	25.5	600	**168,79**
1229M46inch	1 13/16"	67	44	64	25.5	850	**190,92**
1230	1 7/8"	67	54	67	27	910	**190,92**
1231M49inch	1 15/16"	70	54	67	27	950	**218,01**
1232M51inch	2"	73	54	67	27	1040	**231,64**
1233	2 1/16"	73	54	71	30	1040	**231,64**
1234M54inch	2 1/8"	73	54	71	30	1040	**268,65**
1235	2 3/16"	78	54	74	32	1200	**281,23**
1236M57inch	2 1/4"	82	54	75	33	1320	**287,90**
1237M59inch	2 5/16"	82	54	75	33	1320	**293,30**
1238	2 3/8"	82	54	75	35	1320	**387,91**

12L 3/4”

Cap cheie tubulara de impact 3/4" 6 laturi, lung

- *patrat de antrenare 3/4” DIN 3121 - forma H20*
- *hexagon interior confrom DIN 475/2*





3/4" 20mm

OZAT 2000 LTD.

	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
12M13L	13	25	44	90	6	750	**128,88**
12M14L	14	25	44	90	7	750	**128,88**
12M15L	15	28	44	90	7	750	**128,88**
12M16L	16	29	44	90	8	750	**131,10**
12M17L	17	29	44	90	9	750	**131,10**
12M18L	18	32	44	90	9	750	**131,10**
1212M19L	19	32	44	90	9.5	750	**131,10**
12M20L	20	35	44	90	10	750	**131,10**
12M21L	21	35	44	90	11	750	**131,10**
12M22L	22	38	44	90	11	750	**131,10**
12M23L	23	38	44	90	13	750	**133,84**
12M24L	24	40	44	90	13	750	**133,84**
12M25L	25	41	44	90	13	750	**133,84**
12M26L	26	41	44	90	13	750	**133,84**
1217M27L	27	41	44	90	13	750	**133,84**
12M28L	28	44	44	90	14	690	**157,01**
12M29L	29	44	44	90	16.5	690	**157,01**
1219M30L	30	44	44	90	16.5	690	**157,01**
12M31L	31	49	44	90	16.5	780	**161,97**
12M32L	32	49	44	90	17	780	**161,97**
12M33L	33	49	44	90	17	780	**207,95**
12M34L	34	52	44	90	19	800	**207,95**
1222M35L	35	52	44	90	19	800	**207,95**
12M36L	36	52	44	90	19	800	**207,95**
12M37L	37	54	44	90	19	850	**222,97**
1224M38L	38	54	44	90	22	850	**222,97**
12M39L	39	57	44	90	22	920	**238,00**
12M40L	40	57	44	90	22	920	**238,00**
1226M41L	41	57	44	90	22	920	**246,00**
12M42L	42	60	44	90	22	980	**246,00**
1227M43L	43	63	44	90	25	1020	**246,00**
12M44L	44	63	44	90	25	1020	**307,89**
12M45L	45	63	44	90	25.5	1020	**307,89**

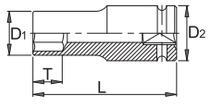
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1229M46L	46	67	44	90	25.5	1350	**307,89**
12M47L	47	67	54	90	25.5	1350	**307,89**
12M48L	48	67	54	90	27	1350	**351,27**
1231M49L	49	70	54	90	27	1400	**351,27**
12M50L	50	70	54	90	27	1400	**351,27**
1232M51L	51	73	54	90	27	1500	**351,27**
12M52L	52	73	54	94	27	1500	**366,22**
1234M54L	54	73	54	94	30	1500	**432,85**
12M55L	55	78	54	94	30	1800	**451,20**
12M56L	56	78	54	98	32	1800	**461,86**
1236M57L	57	82	54	98	33	1900	**464,01**
12M58L	58	82	54	98	33	1900	**472,60**
1237M59L	59	82	54	98	33	1900	**472,60**
12M60L	60	82	54	98	35	1900	**558,55**
12M61L	61	86	54	98	35	2200	**644,79**
1208L	1/2"	24	44	90	6	750	**128,88**
1209L	9/16"	25	44	90	7	750	**128,88**
1210L	5/8"	28	44	90	8	750	**128,88**
1211L	11/16"	29	44	90	9	750	**131,10**
1212M19L inch	3/4"	32	44	90	9.5	750	**131,10**
1213L	13/16"	35	44	90	11	750	**131,10**
1214L	7/8"	38	44	90	13	750	**131,10**
1215L	15/16"	40	44	90	13	750	**133,84**
1216L	1"	41	44	90	13	750	**133,84**
1217M27L inch	1 1/16"	41	44	90	13	750	**133,84**
1218L	1 1/8"	44	44	90	16.5	690	**157,01**
1219M30L inch	1 3/16"	44	44	90	16.5	690	**157,01**
1220L	1 1/4"	49	44	90	17	780	**161,97**
1221L	1 5/16"	49	44	90	19	780	**207,95**
1222M35L inch	1 3/8"	52	44	90	19	800	**207,95**
1223L	1 7/16"	52	44	90	19	800	**207,95**
1224M38L inch	1 1/2"	54	44	90	22	850	**222,97**
1225L	1 9/16"	57	44	90	22	920	**238,00**
1226M41L inch	1 5/8"	57	44	90	22	920	**246,00**
1227M43L inch	1 11/16"	63	44	90	25	1020	**246,00**
1228L	1 3/4"	63	44	90	25.5	1020	**307,89**
1230L	1 7/8"	67	54	90	27	1350	**307,89**
1229M46L inch	1 13/16"	67	44	90	25.5	1350	**307,89**
1231M49L inch	1 15/16"	70	54	90	27	1400	**351,27**
1232M51L inch	2"	73	54	90	27	1500	**351,27**
1233L	2 1/16"	73	54	94	30	1500	**366,22**
1234M54L inch	2 1/8"	73	54	94	30	1500	**432,85**
1235L	2 3/16"	78	54	94	32	1800	**451,20**
1236M57L inch	2 1/4"	82	54	98	33	1900	**464,01**
1237M59L inch	2 5/16"	82	54	98	33	1900	**472,60**
1238L	2 3/8"	82	54	98	35	1900	**625,10**

232/4L6p

Capete chei tubulare de impact lungi 3/4"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*





UNIOR

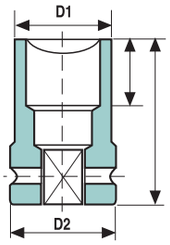
		D1	D2	L	T				
607934	17	31	44	95	17	587	1B	5	**124,63**
607935	19	33	44	95	19	580	1B	5	**124,63**
607936	21	35	44	95	21	589	1B	5	**124,63**
607937	22	37	44	95	22	643	1B	5	**124,63**
607938	24	39	44	95	24	656	1B	5	**124,63**
607939	27	43	44	95	27	731	1B	5	**124,63**
609404	28	44	44	95	28	708	1B	5	**124,63**
607940	30	47	44	95	30	802	1B	5	**124,63**
607941	32	49	44	95	32	821	1B	5	**124,63**
607942	33	51	44	95	33	906	1B	5	**130,22**
607943	36	54	44	95	36	944	1B	5	**142,77**
607944	41	60	44	95	38	1078	1B	1	**164,61**
607945	46	67	44	95	38	1298	1B	1	**204,60**

12B 3/4”

Cap cheie tubulara de impact 3/4" 4 laturi, scurt

• patrat de antrenare 3/4” DIN 3121 - forma H20





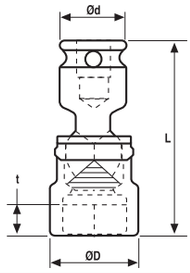
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
12M17B	17	40	44	45	9	290	**192,24**
12M18B	18	40	44	45	9	290	**192,24**
12M19B	19	40	44	45	9.5	290	**192,24**
12M20B	20	42	44	46	10	290	**196,37**
12M21B	21	42	44	46	11	290	**196,37**
12M22B	22	42	44	46	11	290	**196,37**
12M24B	24	44	44	46	13	290	**196,37**
12M27B	27	49	49	48	13	400	**205,44**
12010B	5/8"	40	44	45	8	290	**192,24**
12012B	3/4"	40	44	45	9.5	290	**192,24**
12013B	13/16"	42	44	46	11	290	**196,37**
12014B	7/8"	42	44	46	13	290	**196,37**
12015B	15/16"	44	44	46	13	290	**196,37**
12016B	1"	44	44	46	13	290	**205,44**
12017B	1.1/16"	49	49	48	13	400	**205,44**

UB12 3/4”

Cap cheie tubulara de impact articulata 3/4" 6 laturi, scurta

• patrat de antrenare 3/4” DIN 3121 - forma H20
• hexagon interior confrom DIN 475/2





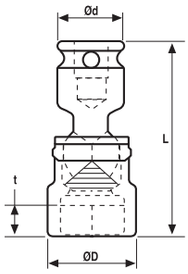
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
UB12M17	17	29	44	90	9	700	**228,53**
UB12M18	18	32	44	90	9	700	**230,16**
UB12M19	19	32	44	90	9.5	700	**230,16**
UB12M21	21	35	44	90	11	700	**251,62**
UB12M22	22	38	44	90	11	750	**261,47**
UB12M24	24	40	44	90	13	750	**261,47**
UB12M26	26	41	44	90	13	750	**261,47**
UB12M27	27	41	44	90	13	750	**261,47**
UB12M30	30	44	44	90	16.5	800	**263,17**
UB12M32	32	49	44	90	17	850	**263,17**
UB12M34	34	52	44	90	19	900	**273,02**
UB12M35	35	52	44	90	19	900	**274,65**
UB12M36	36	52	44	90	19	900	**274,65**
UB12M38	38	54	44	90	22	950	**286,27**
UB1211	11/16"	29	44	90	9	700	**230,16**
UB1212	3/4"	32	44	90	9.5	700	**230,16**
UB1213	13/16"	35	44	90	11	700	**251,62**
UB1214	7/8"	38	44	90	13	700	**261,47**
UB1215	15/16"	40	44	90	13	750	**261,47**
UB1216	1"	41	44	90	13	750	**261,47**
UB1217	1.1/16"	41	44	90	13	750	**261,47**
UB1218	1.1/8"	44	44	90	16.5	800	**263,17**
UB1219	1.13/16"	44	44	90	16.5	800	**263,17**
UB1220	1.1/4"	49	44	90	17	850	**263,17**
UB1221	1.5/16"	49	44	90	19	850	**273,02**
UB1222	1.3/8"	52	44	90	19	900	**274,65**
UB1223	1.7/16"	52	44	90	19	900	**286,27**
UB1224	1.1/2"	54	44	90	22	950	**286,27**

UB12L 3/4”

Cap cheie tubulara de impact articulata 3/4" 6 laturi, lunga

• patrat de antrenare 3/4” DIN 3121 - forma H20
• hexagon interior confrom DIN 475/2





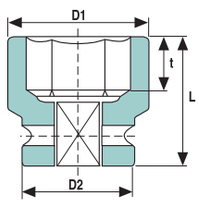
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
UB12M17L	17	29	44	150	9	1050	**245,78**
UB12M18L	18	32	44	150	9	1050	**247,40**
UB12M19L	19	32	44	150	9.5	1050	**247,40**
UB12M21L	21	35	44	150	11	1050	**268,87**
UB12M22L	22	38	44	150	11	1050	**278,79**
UB12M24L	24	40	44	150	13	1050	**278,79**
UB12M26L	26	41	44	150	13	1050	**278,79**
UB12M27L	27	41	44	150	13	1150	**278,79**
UB12M30L	30	44	44	150	16.5	1300	**280,42**
UB12M32L	32	49	44	150	17	1400	**280,42**
UB12M34L	34	52	44	150	19	1400	**290,27**
UB12M35L	35	52	44	150	19	1400	**291,97**
UB12M36L	36	52	44	150	19	1400	**291,97**
UB12M38L	38	54	44	150	22	1500	**303,44**
UB1211L	11/16"	29	44	150	9	1050	**247,40**
UB1212L	3/4"	32	44	150	9.5	1050	**247,40**
UB1213L	13/16"	35	44	150	11	1050	**268,87**
UB1214L	7/8"	38	44	150	13	1050	**278,79**
UB1215L	15/16"	40	44	150	13	1050	**278,79**
UB1216L	1"	41	44	150	13	1050	**278,79**
UB1217L	1.1/16"	41	44	150	13	1050	**278,79**
UB1218L	1.1/8"	44	44	150	16.5	1150	**280,42**
UB1219L	1.13/16"	44	44	150	16.5	1150	**280,42**
UB1220L	1.1/4"	49	44	150	17	1300	**280,42**
UB1221L	1.5/16"	49	44	150	19	1300	**290,27**
UB1222L	1.3/8"	52	44	150	19	1400	**291,97**
UB1223L	1.7/16"	52	44	150	19	1400	**303,44**
UB1224L	1.1/2"	54	44	150	22	1500	**303,44**

12T 3/4”

Cap cheie tubulara de impact cu pereti subtiri 3/4" 6 laturi, scurt

• patrat de antrenare 3/4” DIN 3121 - forma H20
• hexagon interior confrom DIN 475/2





	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
12M17T	17	28	44	45	9	300	**98,75**
12M18T	18	30	44	45	9	300	**98,75**
1212M19T	19	30	44	45	9.5	300	**98,75**
12M20T	20	30	44	46	10	350	**107,86**
12M21T	21	34	44	46	11	350	**107,86**
12M22T	22	35	44	46	11	350	**107,86**
12M23T	23	35	44	46	13	350	**107,86**
12M24T	24	38	44	46	13	350	**107,86**
12M25T	25	38	44	46	13	350	**109,71**
12M26T	26	40	44	46	13	350	**109,71**
1217M27T	27	40	44	48	13	350	**116,97**
12M28T	28	41	44	48	14	350	**116,97**
12M29T	29	41	44	52	16.5	350	**116,97**
1219M30T	30	41	44	52	16.5	350	**116,97**
12M31T	31	44	44	52	17	350	**128,81**
12M32T	32	48	44	52	17	420	**128,81**

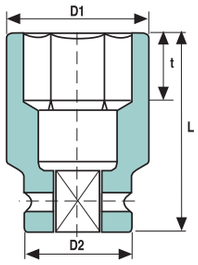
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
12M33T	33	48	44	55	17	420	**141,76**
12M34T	34	49	44	55	19	420	**147,98**
1222M35T	35	50	44	55	19	420	**147,98**
12M36T	36	51	44	56	19	450	**154,72**
12M37T	37	52	44	56	19	450	**166,34**
1224M38T	38	52	44	59	22	450	**166,34**
12M39T	39	54	44	59	22	450	**187,14**
12M40T	40	54	44	59	22	450	**192,33**
1226M41T	41	54	44	59	22	450	**192,33**
12M42T	42	57	44	59	22	450	**202,76**
1227M43T	43	60	44	64	25	650	**218,09**
12M44T	44	60	44	64	25	650	**218,09**
12M45T	45	60	44	64	25.5	650	**248,22**
1229M46T	46	63	44	64	25.5	700	**248,22**
1211T	11/16"	28	44	45	9	300	**98,75**
1212M19T inch	3/4"	30	44	45	9.5	300	**98,75**
1213T	13/16"	34	44	46	11	350	**107,86**
1214T	7/8"	35	44	46	13	350	**107,86**
1215T	15/16"	35	44	46	13	350	**107,86**
1216T	1"	38	44	46	13	350	**109,71**
1217M27T inch	1 1/16"	40	44	48	13	350	**116,97**
1218T	1 1/8"	41	44	52	16.5	350	**116,97**
1219M30T inch	1 3/16"	41	44	52	16.5	350	**116,97**
1220T	1 1/4"	44	44	52	17	350	**128,81**
1221T	1 5/16"	48	44	55	19	420	**141,76**
1222M35T inch	1 3/8"	50	44	55	19	420	**147,98**
1223T	1 7/16"	51	44	56	19	450	**155,90**
1224M38T inch	1 1/2"	52	44	59	22	450	**166,34**
1225T	1 9/16"	54	44	59	22	450	**187,14**
1226M41T inch	1 5/8"	54	44	59	22	450	**192,33**
1227M43T inch	1 11/16"	60	44	64	25	650	**218,09**
1228T	1 3/4"	60	44	64	25.5	650	**218,09**
1229M46T inch	1 13/16"	63	44	64	25.5	700	**248,22**

12LT 3/4”

Cap cheie tubulara de impact cu pereti subtiri 3/4" 6 laturi, lung

• patrat de antrenare 3/4” DIN 3121 - forma H20
• hexagon interior confrom DIN 475/2





	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
12M17LT	17	28	44	90	9	700	**152,13**
12M18LT	18	30	44	90	9	700	**152,13**
1212M19LT	19	30	44	90	9.5	700	**152,13**
12M20LT	20	30	44	90	10	700	**154,72**
12M21LT	21	34	44	90	11	700	**155,02**
12M22LT	22	35	44	90	11	700	**155,02**
12M23LT	23	35	44	90	13	700	**155,02**
12M24LT	24	38	44	90	13	700	**155,02**
12M25LT	25	38	44	90	13	700	**166,05**
12M26LT	26	40	44	90	13	700	**166,05**
1217M27LT	27	40	44	90	13	700	**166,05**
12M28LT	28	41	44	90	14	700	**203,88**
12M29LT	29	41	44	90	16.5	700	**203,88**
1219M30LT	30	41	44	90	16.5	700	**203,88**
12M31LT	31	44	44	90	17	700	**210,98**
12M32LT	32	48	44	90	17	750	**210,98**
12M33LT	33	48	44	90	17	750	**269,98**
12M34LT	34	49	44	90	19	750	**269,98**
1222M35LT	35	50	44	90	19	750	**269,98**
12M36LT	36	51	44	90	19	880	**269,98**
12M37LT	37	52	44	90	19	880	**289,90**
1224M38LT	38	52	44	90	22	880	**289,90**
12M39LT	39	54	44	90	22	800	**309,29**
12M40LT	40	54	44	90	22	800	**309,29**
1226M41LT	41	54	44	90	22	800	**319,66**
12M42LT	42	57	44	90	22	800	**319,66**
1227M43LT	43	60	44	90	25	850	**319,66**
12M44LT	44	60	44	90	25	850	**400,20**
12M45LT	45	60	44	90	25.5	850	**400,20**
1229M46LT	46	63	44	90	25.5	1000	**400,20**

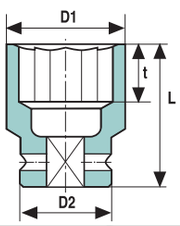
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1211LT	11/16"	28	44	90	9	700	**152,13**
1212M19LT inch	3/4"	30	44	90	9.5	700	**152,13**
1213LT	13/16"	34	44	90	11	700	**154,65**
1214LT	7/8"	35	44	90	13	700	**155,02**
1215LT	15/16"	35	44	90	13	700	**155,02**
1216LT	1"	38	44	90	13	700	**166,05**
1217M27LT inch	1 1/16"	40	44	90	13	700	**166,05**
1218LT	1 1/8"	41	44	90	16.5	700	**203,88**
1219M30LT inch	1 3/16"	41	44	90	16.5	700	**203,88**
1220LT	1 1/4"	44	44	90	17	700	**210,98**
1221LT	1 5/16"	48	44	90	19	750	**269,98**
1222M35LT inch	1 3/8"	50	44	90	19	750	**269,98**
1223LT	1 7/16"	51	44	90	19	880	**269,98**
1224M38LT inch	1 1/2"	52	44	90	22	880	**289,90**
1225LT	1 9/16"	54	44	90	22	800	**309,29**
1226M41LT inch	1 5/8"	54	44	90	22	800	**319,66**
1227M43LT inch	1 11/16"	60	44	90	25	850	**319,66**
1228LT	1 3/4"	60	44	90	25.5	850	**400,20**
1229M46LT inch	1 13/16"	63	44	90	25.5	1000	**400,20**

12DS 3/4”

Cap cheie tubulara de impact 3/4" 8 laturi, scurt

• patrat de antrenare 3/4” DIN 3121 - forma H20





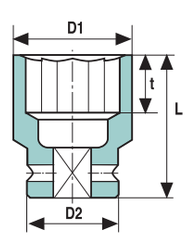
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1222M35DS	35	67	44	53	19	620	**153,68**
1224M38DS	38	67	44	57	22	680	**153,68**
1226M41DS	41	78	54	57	22	1000	**158,13**
1227M43DS	43	82	54	62	25	1200	**166,64**
1229M46DS	46	82	54	63	25.5	1180	**194,10**
1220DS	1 1/4"	60	44	53	17	550	**153,68**
1221DS	1 5/16"	63	44	53	19	640	**153,68**
1222M35DS inch	1 3/8"	67	44	53	19	620	**153,68**
1223DS	1 7/16"	67	44	57	19	720	**153,68**
1224M38DS inch	1 1/2"	67	44	57	22	680	**153,68**
1225DS	1 9/16"	78	54	57	22	930	**153,68**
1226M41DS inch	1 5/8"	78	54	57	22	1000	**158,13**
1227M43DS inch	1 11/16"	82	54	62	25	1200	**166,64**
1228DS	1 3/4"	82	54	63	25.5	1150	**180,78**
1229M46DS inch	1 13/16"	82	54	63	25.5	1180	**194,10**
1230DS	1 7/8"	82	54	65	27	1220	**305,44**

12LDS 3/4”

Cap cheie tubulara de impact 3/4" 8 laturi, lung

• patrat de antrenare 3/4” DIN 3121 - forma H20





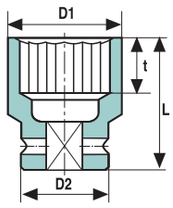
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1222M35LDS	35	67	44	81	19	820	**288,79**
1224M38LDS	38	67	44	81	22	750	**304,63**
1226M41LDS	41	78	54	81	22	1200	**381,69**
1227M43LDS	43	82	54	81	25	1300	**391,76**
1229M46LDS	46	82	54	81	25.5	1300	**414,04**
1220LDS	1 1/4"	60	44	81	17	770	**265,39**
1221LDS	1 5/16"	63	44	81	19	770	**265,39**
1222M35LDS inch	1 3/8"	67	44	81	19	820	**288,79**
1223LDS	1 7/16"	67	44	81	19	800	**304,63**
1224M38LDS inch	1 1/2"	67	44	81	22	750	**304,63**
1225LDS	1 9/16"	78	54	81	22	1200	**351,19**
1226M41LDS inch	1 5/8"	78	54	81	22	1200	**381,69**
1227M43LDS inch	1 11/16"	82	54	81	25	1300	**391,76**
1228LDS	1 3/4"	82	54	81	25.5	1300	**401,61**
1229M46LDS inch	1 13/16"	82	54	81	25.5	1300	**414,04**
1230LDS	1 7/8"	82	54	81	27	1300	**425,29**

12DH 3/4”

Cap cheie tubulara de impact 3/4" 12 laturi, scurt

• patrat de antrenare 3/4” DIN 3121 - forma H20





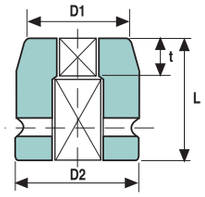
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
12M17DH	17	29	44	45	9	290	88,09
12M18DH	18	32	44	45	9	290	88,09
1212M19DH	19	32	44	45	9.5	290	88,09
12M20DH	20	35	44	46	10	340	95,50
12M21DH	21	35	44	46	11	340	95,50
12M22DH	22	38	44	46	11	340	95,50
12M23DH	23	38	44	46	13	340	95,50
12M24DH	24	40	44	46	13	340	95,50
12M25DH	25	41	44	46	13	340	100,90
12M26DH	26	41	44	46	13	340	100,90
1217M27DH	27	41	44	48	13	380	103,49
12M28DH	28	44	44	48	14	380	103,49
12M29DH	29	44	44	52	16.5	380	103,49
1219M30DH	30	44	44	52	16.5	380	103,49
12M31DH	31	49	44	52	17	420	136,66
12M32DH	32	49	44	52	17	420	136,66
12M33DH	33	49	44	55	17	430	136,66
12M34DH	34	52	44	55	19	460	136,66
1222M35DH	35	52	44	55	19	460	136,66
12M36DH	36	52	44	56	19	460	136,66
12M37DH	37	54	44	56	19	490	147,17
1224M38DH	38	54	44	59	22	490	147,17
12M39DH	39	57	44	59	22	520	147,17
12M40DH	40	57	44	59	22	520	170,12
1226M41DH	41	57	44	59	22	520	170,12
12M42DH	42	60	44	59	22	550	179,52
1227M43DH	43	63	44	64	25	600	179,52
12M44DH	44	63	44	64	25	600	198,62
12M45DH	45	63	44	64	25.5	600	219,64
1229M46DH	46	67	44	64	25.5	850	219,64
12M47DH	47	67	54	64	25.5	850	219,64
12M48DH	48	67	54	67	27	910	250,66
1231M49DH	49	70	54	67	27	950	250,66
12M50DH	50	70	54	67	27	950	250,66
1232M51DH	51	73	54	67	27	1040	266,43
12M52DH	52	73	54	70	27	1040	266,43
1234M54DH	54	73	54	71	30	1040	308,70
12M55DH	55	78	54	71	30	1200	308,70
12M56DH	56	78	54	74	32	1200	317,21
1236M57DH	57	82	54	75	33	1320	330,98
12M58DH	58	82	54	75	33	1320	342,83
1237M59DH	59	82	54	75	33	1320	342,83
12M60DH	60	82	54	75	33	1320	401,75
12M61DH	61	86	54	75	35	1430	454,98
1211DH	11/16"	29	44	45	9	290	88,09
1212M19DH inch	3/4"	32	44	45	9.5	290	88,09
1213DH	13/16"	35	44	46	11	340	95,50
1214DH	7/8"	38	44	46	13	340	95,50
1215DH	15/16"	40	44	46	13	340	95,50
1216DH	1"	41	44	46	13	340	100,90
1217M27DH inch	1 1/16"	41	44	48	13	380	103,49
1218DH	1 1/8"	44	44	52	16.5	380	103,49
1219M30DH inch	1 3/16"	44	44	52	16.5	380	103,49
1220DH	1 1/4"	49	44	52	17	420	136,66
1221DH	1 5/16"	49	44	55	19	430	136,66
1222M35DH inch	1 3/8"	52	44	55	19	460	136,66
1223DH	1 7/16"	52	44	56	19	460	136,66
1224M38DH inch	1 1/2"	54	44	59	22	490	147,17
1225DH	1 9/16"	57	44	59	22	520	165,60
1226M41DH inch	1 5/8"	57	44	59	22	520	170,12
1227M43DH inch	1 11/16"	63	44	64	25	600	179,52
1228DH	1 3/4"	63	44	64	25.5	600	198,62
1229M46DH inch	1 13/16"	67	44	64	25.5	850	219,64
1230DH	1 7/8"	67	54	67	27	910	219,64
1231M49DH inch	1 15/16"	70	54	67	27	950	250,66
1232M51DH inch	2"	73	54	67	27	1040	266,43
1233DH	2 1/16"	73	54	71	30	1040	266,43
1234M54DH inch	2 1/8"	73	54	71	30	1040	308,70
1235DH	2 3/16"	78	54	74	32	1200	311,73
1236M57DH inch	2 1/4"	82	54	75	33	1320	331,06
1237M59DH inch	2 5/16"	82	54	75	33	1320	342,90
1238DH	2 3/8"	82	54	75	35	1320	446,17

12B 3/4”

Cap cheie tubulara de impact 3/4" 6 laturi, pentru camioane

• patrat de antrenare 3/4” DIN 3121 - forma H20





	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1213B	13/16"	42	44	46	12,0	390	117,04
1213BL	13/16"	42	44	90	12,0	800	182,48
1224BS	13/16"+1.1/2"	54	44	90	14,5	1000	363,78

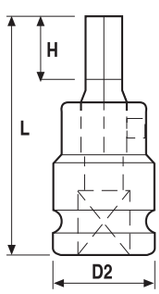
12V 3/4”

Cap cheie tubulara de impact 3/4" cu profil hexagon exterior, 2 piese

• patrat de antrenare 1/2” DIN 3121 - H20
• profil hexagon exterior DIN/ISO 2963
• realizat din 2 piese







	Dimensiune	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	gr	
12M10V	10	38	69	16	310	65,44
12M11V	11	38	69	18	310	65,44
12M12V	12	38	69	18	310	65,44
12M13V	13	38	69	21	310	65,44
12M14V	14	38	69	21	310	65,44
12M15V	15	38	69	26	310	65,44
12M16V	16	38	69	26	310	65,44
12M17V	17	38	69	26	310	65,44
12M18V	18	38	84	26	630	74,40
12M19V	19	38	84	26	630	74,40
12M20V	21	44	84	26	630	83,36
12M21V	21	44	84	26	630	83,36
12M22V	22	44	84	26	630	83,36
12M23V	23	44	84	26	630	83,36
12M24V	24	44	84	26	630	83,36
1206V	3/8"	38	69	16	310	65,44
1207V	7/16"	38	69	18	310	65,44
1208V	1/2"	38	69	19	310	65,44
1209V	9/16"	38	69	21	310	65,44
1210V	5/8"	38	69	24	310	65,44
1212V	3/4"	44	69	26	630	74,40
1213V	13/16"	44	84	26	630	83,36
1214V	7/8"	44	84	26	630	83,36
1216V	1"	44	104	30	630	83,36

12H 3/4”

Cap cheie tubulara impact 3/4" suport pentru bit profil hexagon exterior

• patrat de antrenare 3/4” DIN 3121 - forma H20



	Dimensiune	
	HEX	
12H16	3/4" suport pentru 16 mm bit 6 laturi, 9-16 mm si 3/8"-5/8"	76,62
12H22	3/4" suport pentru 22 mm bit 6 laturi, 17 -22 mm si 3/4"-7/8"	82,99
12H32	3/4" suport pentru 32 mm bit 6 laturi 23-32 mm si 1"-1.1/4"	99,05

Bit pentru cap cheie tubulara impact 3/4", profil hexagon exterior

• *profil hexagon exterior DIN/ISO 2963*

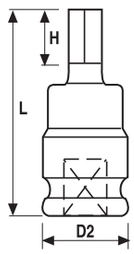


	Dimensiune mm/inch	
HM10	10	**17,91**
HM11	11	**17,91**
HM12	12	**17,91**
HM13	13	**17,91**
HM14	14	**17,91**
HM15	15	**17,91**
HM16	16	**17,91**
HM17	17	**31,39**
HM18	18	**31,39**
HM19	19	**31,39**
HM20	20	**31,39**
HM21	21	**31,39**
HM22	22	**31,39**
HM23	23	**39,46**
HM24	24	**39,46**
H06	3/8"	**17,91**
H07	7/16"	**17,91**
H08	1/2"	**17,91**
H09	9/16"	**17,91**
H10	5/8"	**17,91**
H12	3/4"	**31,39**
H13	13/16"	**31,39**
H14	7/8"	**31,39**
H16	1"	**39,46**

Cap cheie tubulara de impact 3/4" cu profil hexagon exterior, o piesa, standard

• *patrat de antrenare 1/2" DIN 3121 - H20*
• *profil hexagon exterior DIN/ISO 2963*





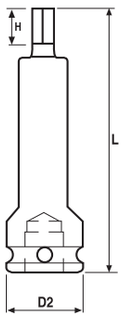
	Dimensiune MM/inch	D2 mm	L mm	t min mm	Greutate gr	
12M10H	10	38	59	10	260	**55,30**
12M11H	11	38	59	11	280	**55,30**
12M12H	12	38	59	12	280	**55,30**
12M13H	13	38	59	13	280	**60,85**
12M14H	14	38	59	14	280	**60,85**
12M15H	15	38	59	15	280	**60,85**
12M16H	16	38	59	16	280	**60,85**
12M17H	17	38	62	17	280	**60,85**
12M18H	18	38	62	18	450	**60,85**
12M19H	19	44	64	19	450	**60,85**
12M20H	20	44	64	20	460	**72,70**
12M21H	21	44	64	21	460	**72,70**
12M22H	22	44	67	22	460	**72,70**
12M23H	23	44	67	23	500	**72,70**
12M24H	24	44	67	24	500	**72,70**
1206H	3/8"	38	59	10	265	**55,30**
1207H	7/16"	38	59	11	270	**55,30**
1208H	1/2"	38	59	13	270	**55,30**
1209H	9/16"	38	62	14	280	**60,85**
1210H	5/8"	38	62	16	280	**60,85**
1212H	3/4"	44	64	19	450	**60,85**
1213H	13/16"	44	67	21	460	**72,70**
1214H	7/8"	44	67	22	470	**72,70**
1216H	1"	44	67	25	510	**72,70**

12HL4 3/4”

Cap cheie tubulara de impact 3/4" cu profil hexagon exterior, o piesa, lung 100 mm

• *patrat de antrenare 1/2" DIN 3121 - H20*
• *profil hexagon exterior DIN/ISO 2963*





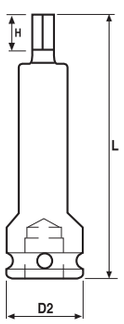
	Dimensiune MM/inch	D2 mm	L mm	t min mm	Greutate gr	
12M10HL4	10	38	100	10	350	**103,39**
12M12HL4	12	38	100	12	350	**103,39**
12M14HL4	14	38	100	14	350	**103,39**
12M17HL4	17	38	100	17	350	**103,39**
12M19HL4	19	44	100	19	550	**144,89**
12M22HL4	22	44	100	22	550	**144,89**
12M24HL4	24	44	100	24	550	**144,89**
1206HL4	3/8"	38	100	10	350	**103,39**
1207HL4	7/16"	38	100	11	350	**103,39**
1208HL4	1/2"	38	100	13	350	**103,39**
1209HL4	9/16"	38	100	14	350	**103,39**
1210HL4	5/8"	38	100	16	350	**103,39**
1212HL4	3/4"	44	100	19	550	**144,89**
1213HL4	13/16"	44	100	21	550	**144,89**
1214HL4	7/8"	44	100	22	550	**144,89**
1216HL4	1"	44	100	25	550	**144,89**

12HL6 3/4”

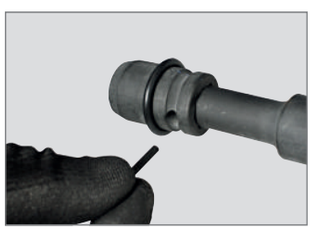
Cap cheie tubulara de impact 3/4" cu profil hexagon exterior, o piesa, lung 150 mm

• *patrat de antrenare 1/2" DIN 3121 - H20*
• *profil hexagon exterior DIN/ISO 2963*





	Dimensiune MM/inch	D2 mm	L mm	t min mm	Greutate gr	
12M10HL6	10	38	150	10	390	**171,11**
12M12HL6	12	38	150	12	390	**171,11**
12M14HL6	14	38	150	14	390	**171,11**
12M17HL6	17	38	150	17	390	**171,11**
12M19HL6	19	44	150	19	600	**212,61**
12M22HL6	22	44	150	22	600	**212,61**
12M24HL6	24	44	150	24	600	**212,61**
1206HL6	3/8"	38	150	10	390	**171,11**
1207HL6	7/16"	38	150	11	390	**171,11**
1208HL6	1/2"	38	150	13	390	**171,11**
1209HL6	9/16"	38	150	14	390	**171,11**
1210HL6	5/8"	38	150	16	390	**171,11**
1212HL6	3/4"	44	150	19	600	**212,61**
1213HL6	13/16"	44	150	21	600	**212,61**
1214HL6	7/8"	44	150	22	600	**212,61**
1216HL6	1"	44	150	25	600	**212,61**





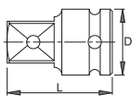
232.7/4

Adaptor de impact 3/4"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*

3/4" 1/2" 1"





UNIOR

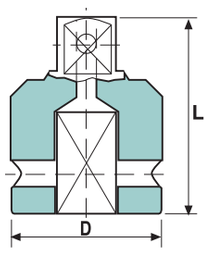
		D	L				
603995	3/4" - 1/2"	44	56	323	1B	1	102,20
618708	3/4" - 1"	44	63	443	1B	1	106,44

A12 3/4"

Adaptor de impact mama-tata 3/4"

- *patrat de antrenare 3/4" DIN 3121 - forma H20*





3/4" 20mm OZAT 2000 LTD.

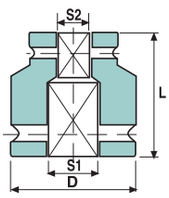
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
A1208	3/4"	1/2"	44	55	340	106,68
A1210	3/4"	5/8"	44	57	350	113,34
A1216	3/4"	1"	44	59	400	153,24

AN12 3/4"

Adaptor de impact mama-mama 3/4"

- *patrat de antrenare 3/4" DIN 3121 - forma H20*





3/4" 20mm OZAT 2000 LTD.

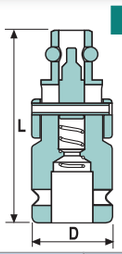
	Patrat		D	L	Greutate	
	interior	interior	mm	mm	gr	
AN1208	3/4"	1/2"	44	49	320	139,91
AN1210	3/4"	5/8"	44	50	370	159,98
AN1212	3/4"	3/4"	44	49	390	139,91
AN1612	1"	3/4"	54	63	680	339,87

QCAD12 3/4"

Adaptor de impact cu prindere rapida 3/4"

- *patrat de antrenare 3/4" DIN 3121 - forma H20*





3/4" 20mm OZAT 2000 LTD.

	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
QCAD12	3/4"	3/4"	44	78	500	551,51

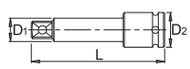
232.4/4

Prelungitor lung de impact 3/4"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*

3/4" 3/4"





UNIOR

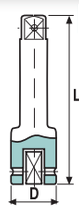
		L	D1	D2				
603993	3/4"	175	25.5	44	882	1B	1	164,81
603992	3/4"	250	25.5	44	1245	1B	1	195,36

E12 3/4"

Prelungitor de impact 3/4"

- *patrat de antrenare 3/4" DIN 3121 - forma H20*





3/4" 20mm OZAT 2000 LTD.

	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
E1203	3/4"	3/4"	44	75	470	186,63
E1204	3/4"	3/4"	44	100	550	200,03
E1205	3/4"	3/4"	44	125	690	213,28
E1207	3/4"	3/4"	44	175	900	239,93
E1210	3/4"	3/4"	44	250	1200	299,89
E1213	3/4"	3/4"	44	325	1460	313,29

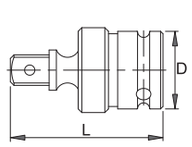
232.6/4

Intermediar cardanic de impact 3/4"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*

3/4" 3/4"





UNIOR

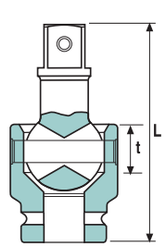
		D	L				
603994	3/4"	44	90	539	1B	1	251,15

U12 3/4"

Intermediar cardanic de impact 3/4"

- *patrat de antrenare 3/4" DIN 3121 - forma H20*





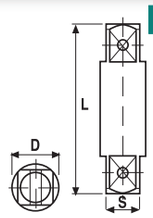
3/4" 20mm OZAT 2000 LTD.

	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
U1212	3/4"	3/4"	44	94	590	280,79

Z12 3/4”

Adaptor de impact tata-tata 3/4"

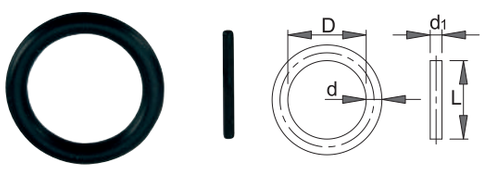




	Patrat		D	L	Greutate	
	exterior	exterior	mm	mm	gr	
Z1202	3/4"	3/4"	25.4	51	140	**59,96**
Z1203	3/4"	3/4"	25.4	78	280	**59,96**
Z1204	3/4"	3/4"	25.4	101	360	**99,94**
Z1205	3/4"	3/4"	25.4	127	460	**99,94**
Z1207	3/4"	3/4"	25.4	177	640	**239,93**
Z1210	3/4"	3/4"	25.4	254	820	**299,89**
Z1213	3/4"	3/4"	25.4	330	1240	**319,95**
Z1215	3/4"	3/4"	25.4	381	1350	**333,28**
Z1216	3/4"	3/4"	25.4	406	1510	**359,93**

232.8/4

Accesorii de impact 3/4"

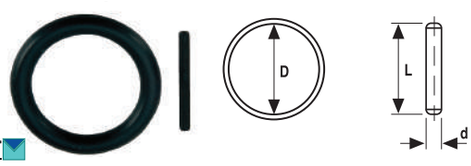


UNIOR

			D	d	L	d1				
603996	3/4"	17 - 46	35	4.5	35	4	11	1E	1	**34,00**

PR12 3/4”

Accesorii de impact 3/4"



OZAT

	Patrat	Tip	Q	d	L	D	
				mm	mm	mm	
P1244	3/4"	pin	44	4	35	-	**4,00**
P1254	3/4"	pin	54	4	45	-	**4,00**
R1244	3/4"	inel	44	-	-	36	**6,66**
R1254	3/4"	inel	54	-	-	46	**6,66**

SET 12-03

Trusa capete tubulare de impact scurte 3/4" 24-33 mm/4 piese



3/4" 20mm

OZAT

	Dimensiune	
SET 12-03	24-33 mm / 4 piese 24, 27, 30, 33, mm	**1629,30**

232PB1

Trusa capete chei tubulare varianta lunga 3/4"

- *Dimensiunea cutiei : 307 x 260 x 70*



UNIOR

621459	24 - 36 / 7	5340	1F	1	**928,68**

232/4L6p(24, 27, 30, 32, 33, 36), **232.8/4** (3/4"), **981PBM2**(307 x 260 x 74)

SET 12-01 / SET 12-02

Trusa capete tubulare de impact scurte 3/4"



3/4" 20mm

OZAT

	Dimensiune	
SET 12-01	19-41 mm / 16 piese 19, 20, 21, 22, 24, 25, 27, 30, 32, 33, 35, 36, 38, 41 mm, prelungitor 175 mm, intermediar cardanic 3/4", pin, inel	**1629,30**
SET 12-02	11-27 mm / 16 piese 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4", 1 5/16", 1 7/16", 1 1/2", 1 5/8" prelungitor 175 mm, intermediar cardanic 3/4", pin, inel	**1397,22**

740 KS 9

Trusa capete chei tubulare de impact 3/4”

- *cutie plastic*



ASW

	Dimensiune	Ambalare	
074800	10 piese	1	**1213,06**

3/4" capete chei tubulare de de impact: SW 19, 22, 24, 27, 30, 32, 36, 41, 46
inel de retinere si stift de blocare: **(074900, 074910)**

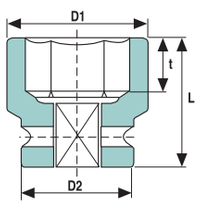


16S 1”

Cap cheie tubulara de impact 1" 6 laturi, scurt

• patrat de antrenare 1” DIN 3121 - forma H 25
• hexagon interior confrom DIN 475/2





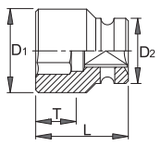
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1612M19	19	36	54	55	9.5	600	**129,70**
16M20	20	37	54	55	10	600	**129,70**
16M21	21	38	54	55	11	600	**129,70**
16M22	22	40	54	55	11	600	**129,70**
16M23	23	41	54	55	13	600	**129,70**
16M24	24	42	54	55	13	600	**135,32**
16M25	25	43	54	55	13	600	**135,32**
16M26	26	45	54	55	13	600	**135,32**
1617M27	27	46	54	55	13	600	**135,32**
16M28	28	47	54	55	14	600	**135,32**
16M29	29	48	54	57	16.5	630	**135,32**
1619M30	30	50	54	57	16.5	630	**135,32**
16M31	31	51	54	57	17	630	**135,32**
16M32	32	51	54	57	17	630	**135,32**
16M33	33	54	54	57	17	630	**135,32**
16M34	34	54	54	60	19	650	**150,57**
1622M35	35	54	54	60	19	650	**150,57**
16M36	36	54	54	60	19	650	**150,57**
16M37	37	54	54	60	19	650	**150,57**
1624M38	38	60	54	64	22	760	**150,57**
16M39	39	60	54	64	22	760	**150,57**
16M40	40	63	54	64	22	800	**178,26**
1626M41	41	63	54	64	22	800	**178,26**
16M42	42	63	54	64	22	800	**178,26**
1627M43	43	67	54	69	25	950	**194,03**
16M44	44	67	54	69	25	950	**194,03**
16M45	45	70	54	69	25.5	1000	**204,32**
1629M46	46	70	54	69	25.5	1000	**204,32**
16M47	47	70	54	69	25.5	1000	**211,50**
16M48	48	73	54	72	27	1080	**217,64**
1631M49	49	73	54	72	27	1080	**234,23**
16M50	50	73	54	72	27	1080	**248,37**
1632M51	51	73	54	72	27	1080	**250,74**
16M52	52	78	54	72	27	1200	**285,31**
1634M54	54	82	54	76	30	1400	**302,48**
16M55	55	82	54	76	30	1400	**302,48**
16M56	56	82	54	80	32	1400	**318,77**
1636M57	57	82	54	80	33	1400	**326,98**
16M58	58	86	54	80	33	1500	**330,02**
1637M59	59	86	54	82	33	1500	**330,02**
16M60	60	86	54	82	33	1500	**394,87**
16M61	61	88	54	85	35	1800	**394,87**
1639M62	62	92	54	85	35	1800	**436,92**
1641M65	65	92	54	85	35	1800	**506,73**
1642M67	67	92	54	88	38	1800	**534,78**
1644M70	70	96	54	88	38	1800	**569,80**
1646M73	73	100	86	92	41	2700	**659,82**
1647M75	75	100	86	92	41	2700	**729,77**
1648M76	76	105	86	97	44	3200	**729,77**
16M77	77	105	86	97	44	3200	**779,67**
16M80	80	105	86	97	44	3200	**848,74**
16M85	85	115	86	100	47	3500	**994,58**
1654M86	86	115	86	104	49	3500	**994,58**
16M90	90	127	86	104	49	4400	**1017,52**
1660M95	95	135	86	106	49	5200	**1169,51**
1663M100	100	135	86	112	54	5200	**1289,43**
1666M105	105	145	127	112	54	7700	**1425,42**
1669M110	110	150	127	122	62	8200	**1673,34**
16M115	115	155	127	122	67	9060	**1923,12**
1612M19 inch	3/4"	36	54	55	9.5	600	**129,70**
1613	13/16"	38	54	55	11	600	**129,70**
1614	7/8"	40	54	55	13	600	**129,70**
1615	15/16"	41	54	55	13	600	**129,70**
1616	1"	43	54	55	13	600	**135,32**
1617M27 inch	1 1/16"	46	54	55	13	600	**135,32**
1618	1 1/8"	48	54	57	16.5	630	**135,32**
1619M30 inch	1 3/16"	50	54	57	16.5	630	**135,32**
1620	1 1/4"	51	54	57	17	630	**135,32**
1621	1 5/16"	54	54	60	19	650	**135,32**
1622M35 inch	1 3/8"	54	54	60	19	650	**150,57**
1623	1 7/16"	54	54	60	19	650	**150,57**
1624M38 inch	1 1/2"	60	54	64	22	760	**150,57**
1625	1 9/16"	60	54	64	22	760	**150,57**
1626M41 inch	1 5/8"	63	54	64	22	800	**178,26**
1627M43 inch	1 11/16"	67	54	69	25	950	**194,03**
1628	1 3/4"	70	54	69	25.5	1000	**200,03**
1629M46 inch	1 13/16"	70	54	69	25.5	1000	**204,32**
1630	1 7/8"	70	54	72	27	1000	**217,64**
1631M49 inch	1 15/16"	73	54	72	27	1080	**234,23**
1632M51 inch	2"	73	54	72	27	1080	**250,74**
1633	2 1/16"	78	54	76	30	1240	**285,31**
1634M54 inch	2 1/8"	82	54	76	30	1400	**302,48**
1635	2 3/16"	82	54	80	32	1400	**318,77**
1636M57 inch	2 1/4"	82	54	80	33	1400	**326,98**
1637M59 inch	2 5/16"	86	54	82	33	1500	**330,02**
1638	2 3/8"	86	54	85	35	1500	**394,87**
1639M62 inch	2 7/16"	92	54	85	35	1800	**436,92**
1640	2 1/2"	92	54	85	35	1800	**475,78**
1641M65 inch	2 9/16"	92	54	85	35	1800	**506,73**
1642M67inch	2 5/8"	92	54	88	38	1800	**534,78**
1643	2 11/16"	96	54	88	38	1800	**569,80**
1644M70 inch	2 3/4"	96	54	88	38	1800	**569,80**
1645	2 13/16"	100	86	92	40	2700	**569,80**
1646M73 inch	2 7/8"	100	86	92	41	2700	**659,82**
1647M75 inch	2 15/16"	100	86	92	41	2700	**729,77**
1648M76 inch	3"	105	86	97	44	3200	**729,77**
1649	3 1/16"	105	86	97	44	3200	**779,67**
1650	3 1/8"	105	86	97	44	3200	**779,67**
1651	3 3/16"	109	86	100	47	3200	**949,64**
1652	3 1/4"	109	86	100	47	3200	**949,64**
1653	3 5/16"	109	86	100	47	3200	**994,58**
1654M86 inch	3 3/8"	115	86	104	49	3500	**994,58**
1655	3 7/16"	121	86	104	49	4120	**994,58**
1656	3 1/2"	121	86	104	49	4120	**994,58**
1657	3 9/16"	127	86	104	49	4400	**1169,51**
1658	3 5/8"	130	86	104	49	4700	**1169,51**
1659	3 11/16"	130	86	104	49	4700	**1169,51**
1660M95 inch	3 3/4"	135	86	106	49	5200	**1169,51**
1661	3 13/16"	135	86	112	54	5200	**1289,43**
1662	3 7/8"	135	86	112	54	5200	**1289,43**
1663M100 inch	3 15/16"	135	86	112	54	5200	**1289,43**
1664	4"	140	127	112	54	5500	**1425,42**
1665	4 1/16"	140	127	112	54	5500	**1425,42**
1666M105 inch	4 1/8"	145	127	112	54	7700	**1425,42**
1667	4 3/16"	145	127	122	62	8100	**1673,34**
1668	4 1/4"	145	127	122	62	8100	**1673,34**
1669M110 inch	4 5/16"	150	127	122	62	8200	**1673,34**
1670	4 3/8"	150	127	122	62	8200	**1923,12**
1671	4 7/16"	155	127	122	62	9060	**1923,12**
1672	4 1/2"	155	127	122	62	9060	**1923,12**

233/4 6p

Capete chei tubulare de impact 1"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*
- *in conformitate cu standardul ISO 2725-2(numai dimensiunile in mm)*





UNIOR

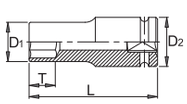
		D1	D2	L	T				
615195	22	40	54	58	17	677	1C	5	122,63
615196	24	42	54	58	17	679	1C	5	122,63
615197	27	46	54	58	17	694	1C	5	122,63
615198	30	50	54	60	21	726	1C	5	122,63
615199	32	52	54	60	21	704	1C	5	122,63
615200	33	53	54	60	21	703	1C	5	136,35
615201	34	55	54	62	21	688	1C	5	136,35
615202	36	56	54	65	30.5	785	1C	5	136,35
615203	38	59	54	65	30	844	1C	5	161,40
615204	41	63	54	67	31	933	1C	5	161,40
615205	42	64	54	74	38	1055	1C	5	176,63
615206	46	69	54	74	38	1174	1C	1	176,63
615207	50	74	54	80	42	1367	1C	1	203,43
615208	55	80	54	84	44.5	1632	1C	1	213,50
615209	60	86	54	87	44.5	1715	1C	1	240,16
615210	65	92	54	90	46.5	1962	1C	1	365,66
615211	70	99	54	96	51	2370	1C	1	433,04
615212	75	104	86	98	52	3364	1C	1	491,36
615213	80	109	86	100	53	3656	1C	1	528,63

233/4L6p

Capete de impact varianta lunga 1”

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*





UNIOR

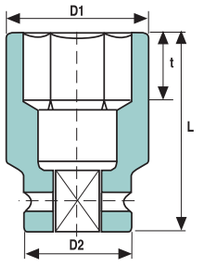
		D1	D2	L	T				
616771	22	40	54	100	21	879	1C	5	173,22
616772	24	42	54	100	21	921	1C	5	173,22
616773	27	46	54	100	24	1012	1C	5	173,22
616774	30	50	54	100	24	1075	1C	5	173,22
616775	32	52	54	100	24	1090	1C	5	173,22
616776	33	53	54	100	24	1109	1C	5	173,22
616777	34	55	54	100	40	1162	1C	5	173,22
616778	36	56	54	100	65	1207	1C	5	173,22
616779	38	59	54	100	65	1222	1C	5	173,22
616780	41	63	54	100	64	1367	1C	5	186,21
616781	42	64	54	100	64	1380	1C	5	191,27
616782	46	69	54	100	63	1613	1C	1	211,70
616783	50	74	54	100	62	1793	1C	1	235,30
616784	55	80	54	100	60	1976	1C	1	303,64
616785	60	86	54	120	78	2726	1C	1	415,87
616786	65	92	54	125	80	3192	1C	1	459,79
616787	70	99	54	125	80	3595	1C	1	517,63
616788	75	104	86	135	85	4512	1C	1	708,71
616789	80	109	86	135	85	5532	1C	1	735,61

16L 1”

Cap cheie tubulara de impact 1" 6 laturi, lung

- *patrat de antrenare 1” DIN 3121 - forma H 25*
- *hexagon interior confrom DIN 475/2*





1" 25mm

OZAT 2000 LTD.

	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1612M19L	19	36	54	100	9.5	1200	200,03
16M20L	20	37	54	100	10	1200	200,03
16M21L	21	38	54	100	11	1200	200,03
16M22L	22	40	54	100	11	1200	200,03
16M23L	23	41	54	100	13	1200	200,03
16M24L	24	42	54	100	13	1200	200,03
16M25L	25	43	54	100	13	1200	200,03
16M26L	26	45	54	100	13	1200	200,03
1617M27L	27	46	54	100	13	1200	210,54
16M28L	28	47	54	100	14	1200	210,54
16M29L	29	48	54	100	16.5	1200	210,54
1619M30L	30	50	54	100	16.5	1200	211,87
16M31L	31	51	54	100	17	1200	211,87
16M32L	32	51	54	100	17	1200	211,87
16M33L	33	54	54	100	17	1200	220,90
16M34L	34	54	54	100	19	1200	230,90
1622M35L	35	54	54	100	19	1200	230,90
16M36L	36	54	54	100	19	1200	230,90
16M37L	37	54	54	100	19	1200	259,54
1624M38L	38	60	54	100	22	1300	259,54
16M39L	39	60	54	100	22	1300	277,76
16M40L	40	63	63	100	22	1400	276,94
1626M41L	41	63	54	100	22	1400	276,94
16M42L	42	63	54	100	22	1400	281,98
1627M43L	43	67	54	100	25	1500	281,98
16M44L	44	67	54	100	25	1500	307,89
16M45L	45	70	54	100	25.5	1600	325,95
1629M46L	46	70	54	100	25.5	1600	325,95
16M47L	47	70	54	100	25.5	1600	399,83
16M48L	48	73	54	100	27	1700	399,83
1631M49L	49	73	54	100	27	1700	399,83
16M50L	50	73	54	100	27	1700	399,83
1632M51L	51	73	54	100	27	1700	399,83
16M52L	52	78	54	100	27	1900	399,83
1634M54L	54	82	54	104	30	2200	479,85
16M55L	55	82	54	105	30	2200	479,85
16M56L	56	82	54	105	32	2200	519,90
1636M57L	57	82	54	105	33	2200	519,90
16M58L	58	86	54	105	33	2500	539,82
1637M59L	59	86	54	112	33	2500	539,82
16M60L	60	86	54	105	35	2500	599,78
16M61L	61	88	54	112	35	2800	666,33
1639M62L	62	92	54	118	35	3000	799,66
1641M65L	65	92	54	118	35	3000	799,66
1642M67L	67	92	54	118	38	3000	880,07
1644M70L	70	96	54	124	38	3200	879,68
1646M73L	73	100	86	124	41	4300	1225,10
1647M75L	75	100	86	124	41	4300	1292,84
1648M76L	76	105	86	130	44	4800	1292,84
16M77L	77	105	86	130	44	4800	1292,84
16M80L	80	105	86	132	44	4800	1452,74
16M85L	85	115	86	132	47	5200	1564,15
1654M86L	86	115	86	140	49	6000	1696,07
16M90L	90	127	86	140	49	7200	2014,69
1660M95L	95	135	86	140	49	7600	2315,69
1663M100L	100	135	86	143	54	7600	2552,81
1666M105L	105	145	127	143	54	10500	2821,97
1669M110L	110	150	127	149	62	11200	3312,71
16M115L	115	155	127	149	67	11700	3807,52
1612M19L inch	3/4"	36	54	100	9.5	1200	200,03
1613L	13/16"	38	54	100	11	1200	200,03
1614L	7/8"	40	54	100	13	1200	200,03
1615L	15/16"	41	54	100	13	1200	200,03
1616L	1"	43	54	100	13	1200	200,03

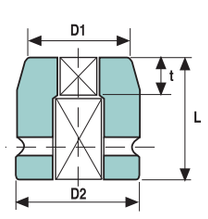
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1617M27L inch	1 1/16"	46	54	100	13	1200	**210,54**
1618L	1 1/8"	48	54	100	16.5	1200	**210,54**
1619M30L inch	1 3/16"	50	54	100	16.5	1200	**211,87**
1620L	1 1/4"	51	54	100	17	1200	**211,87**
1621L	1 5/16"	54	54	100	19	1200	**220,90**
1622M35L inch	1 3/8"	54	54	100	19	1200	**230,90**
1623L	1 7/16"	54	54	100	19	1200	**230,90**
1624M38L inch	1 1/2"	60	54	100	22	1300	**259,54**
1625L	1 9/16"	60	54	100	22	1300	**276,94**
1626M41L inch	1 5/8"	63	54	100	22	1400	**276,94**
1627M43L inch	1 11/16"	67	54	100	25	1500	**281,98**
1628L	1 3/4"	70	54	100	25.5	1600	**307,89**
1629M46L inch	1 13/16"	70	54	100	25.5	1600	**325,95**
1630L	1 7/8"	70	54	100	27	1600	**399,83**
1631M49L inch	1 15/16"	73	54	100	27	1700	**399,83**
1632M51L inch	2"	73	54	100	27	1700	**399,83**
1633L	2 1/16"	78	54	100	30	1900	**399,83**
1634M54L inch	2 1/8"	82	54	104	30	2200	**479,85**
1635L	2 3/16"	82	54	105	32	2200	**479,85**
1636M57L inch	2 1/4"	82	54	105	33	2200	**519,90**
1637M59L inch	2 5/16"	86	54	112	33	2500	**539,82**
1638L	2 3/8"	86	54	112	35	2500	**599,78**
1639M62L inch	2 7/16"	92	54	118	35	3000	**799,66**
1640L	2 1/2"	92	54	118	35	3000	**799,66**
1641M65L inch	2 9/16"	92	54	118	35	3000	**799,66**
1642M67L inch	2 5/8"	92	54	118	38	3000	**879,68**
1643L	2 11/16"	96	54	124	38	3200	**879,68**
1644M70L inch	2 3/4"	96	54	124	38	3200	**879,68**
1645L	2 13/16"	100	86	124	40	4300	**1179,43**
1646M73L inch	2 7/8"	100	86	124	41	4300	**1225,10**
1647M75L inch	2 15/16"	100	86	124	41	4300	**1292,84**
1648M76L inch	3"	105	86	130	44	4800	**1292,84**
1649L	3 1/16"	105	86	130	44	4800	**1292,84**
1650L	3 1/8"	105	86	132	44	4800	**1292,84**
1651L	3 3/16"	109	86	132	47	5000	**1452,74**
1652L	3 1/4"	109	86	132	47	5000	**1452,74**
1653L	3 5/16"	109	86	132	47	5000	**1452,74**
1654M86L inch	3 3/8"	115	86	140	49	6000	**1696,07**
1655L	3 7/16"	121	86	140	49	7000	**1915,57**
1656L	3 1/2"	121	86	140	49	7000	**1915,57**
1657L	3 9/16"	127	86	140	49	7200	**2104,49**
1658L	3 5/8"	130	86	140	49	7400	**2178,22**
1659L	3 11/16"	130	86	140	49	7400	**2178,22**
1660M95L inch	3 3/4"	135	86	140	49	7600	**2315,69**
1661L	3 13/16"	135	86	143	54	7600	**2383,28**
1662L	3 7/8"	135	86	143	54	7600	**2383,28**
1663M100L inch	3 15/16"	135	86	143	54	7600	**2552,81**
1664L	4"	140	127	143	54	10400	**2729,73**
1665L	4 1/16"	140	127	143	54	10400	**2729,73**
1666M105L inch	4 1/8"	145	127	143	54	10500	**2821,97**
1667L	4 3/16"	145	127	149	62	10500	**3312,71**
1668L	4 1/4"	145	127	149	62	10500	**3312,71**
1669M110L inch	4 5/16"	150	127	149	62	11200	**3312,71**
1670L	4 3/8"	150	127	149	62	11200	**3464,99**
1671L	4 7/16"	155	127	149	62	11700	**3807,52**
1672L	4 1/2"	155	127	149	62	11700	**3807,52**

16B 1”

Cap cheie tubulara de impact 1" 6 laturi, pentru camioane

- *patrat de antrenare 1” DIN 3121 - forma H 25*
- *hexagon interior confrom DIN 475/2*





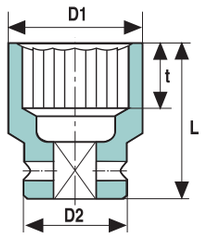
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
16M17B	17 mm	40	54	55	9	590	**147,91**
16M21B	21 mm	47	54	55	10	650	**147,91**
1624M38BS	38 mm	57	54	55	14.5	1320	**384,88**
1613B	13/16"	47	54	55	12	620	**147,91**
1615B	15/16"	52,5	54	60	13	750	**153,98**
1613BL	13/16"	47	54	100	12	1320	**235,93**
1615BL	15/16"	52,5	54	100	13	1320	**243,92**
1624M38BS inch	1 1/2"	57	54	100	14.5	1320	**384,88**

16DH 1”

Cap cheie tubulara de impact 1" 12 laturi, scurt

- *patrat de antrenare 1” DIN 3121 - forma H 25*





	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1612M19DH	19	36	54	100	9.5	1200	**149,39**
16M20DH	20	37	54	100	10	1200	**149,39**
16M21DH	21	38	54	100	11	1200	**149,39**
16M22DH	22	40	54	100	11	1200	**149,39**
16M23DH	23	41	54	100	13	1200	**149,39**
16M24DH	24	42	54	100	13	1200	**149,39**
16M25DH	25	43	54	100	13	1200	**149,39**
16M26DH	26	45	54	100	13	1200	**155,53**
1617M27DH	27	46	54	100	13	1200	**155,53**
16M28DH	28	47	54	100	14	1200	**155,53**
16M29DH	29	48	54	100	16.5	1200	**155,53**
1619M30DH	30	50	54	100	16.5	1200	**155,53**
16M31DH	31	51	54	100	17	1200	**155,53**
16M32DH	32	51	54	100	17	1200	**155,53**
16M33DH	33	54	54	100	17	1200	**155,53**
16M34DH	34	54	54	100	19	1200	**173,30**
1622M35DH	35	54	54	100	19	1200	**173,30**
16M36DH	36	54	54	100	19	1200	**173,30**
16M37DH	37	54	54	100	19	1200	**178,19**
1624M38DH	38	60	54	100	22	1300	**178,19**
16M39DH	39	60	54	100	22	1300	**205,06**
16M40DH	40	63	63	100	22	1400	**205,06**
1626M41DH	41	63	54	100	22	1400	**205,06**
16M42DH	42	63	54	100	22	1400	**223,05**
1627M43DH	43	67	54	100	25	1500	**223,05**
16M44DH	44	67	54	100	25	1500	**223,05**
16M45DH	45	70	54	100	25.5	1600	**234,97**
1629M46DH	46	70	54	100	25.5	1600	**234,97**
16M47DH	47	70	54	100	25.5	1600	**250,29**
16M48DH	48	73	54	100	27	1700	**269,32**
1631M49DH	49	73	54	100	27	1700	**269,32**
16M50DH	50	73	54	100	27	1700	**288,27**
1632M51DH	51	73	54	100	27	1700	**288,27**
16M52DH	52	78	54	100	27	1900	**328,10**
1634M54DH	54	82	54	104	30	2200	**347,79**
16M55DH	55	82	54	105	30	2200	**347,79**
16M56DH	56	82	54	105	32	2200	**376,07**
1636M57DH	57	82	54	105	33	2200	**376,07**
16M58DH	58	86	54	105	33	2500	**379,69**
1637M59DH	59	86	54	112	33	2500	**379,69**
16M60DH	60	86	54	105	35	2500	**454,17**
16M61DH	61	88	54	112	35	2800	**454,17**
1639M62DH	62	92	54	118	35	3000	**508,36**
1641M65DH	65	92	54	118	35	3000	**582,75**
1642M67DH	67	92	54	118	38	3000	**615,03**
1644M70DH	70	96	54	124	38	3200	**655,30**
1646M73DH	73	100	86	124	41	4300	**758,57**
1647M75DH	75	100	86	124	41	4300	**839,19**
1648M76DH	76	105	86	130	44	4800	**839,19**
16M77DH	77	105	86	130	44	4800	**896,71**
16M80DH	80	105	86	132	44	4800	**1092,52**
16M85DH	85	115	86	132	47	5200	**1152,26**
1654M86DH	86	115	86	140	49	6000	**1152,26**
16M90DH	90	127	86	140	49	7200	**1172,02**
1660M95DH	95	135	86	140	49	7600	**1347,99**
1663M100DH	100	135	86	143	54	7600	**1483,16**
1666M105DH	105	145	127	143	54	10500	**1639,44**
1669M110DH	110	150	127	149	62	11200	**1925,34**
16M115DH	115	155	127	149	67	11700	**2213,01**
1612M19DH inch	3/4"	36	54	100	9.5	1200	**149,39**
1613DH	13/16"	38	54	100	11	1200	**149,39**
1614DH	7/8"	40	54	100	13	1200	**149,39**
1615DH	15/16"	41	54	100	13	1200	**149,39**
1616DH	1"	43	54	100	13	1200	**155,53**

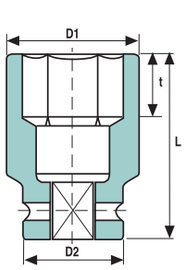
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1617M27DH inch	1 1/16"	46	54	100	13	1200	**155,53**
1618DH	1 1/8"	48	54	100	16.5	1200	**155,53**
1619M30DH inch	1 3/16"	50	54	100	16.5	1200	**155,53**
1620DH	1 1/4"	51	54	100	17	1200	**155,53**
1621DH	1 5/16"	54	54	100	19	1200	**155,53**
1622M35DH inch	1 3/8"	54	54	100	19	1200	**173,30**
1623DH	1 7/16"	54	54	100	19	1200	**173,30**
1624M38DH inch	1 1/2"	60	54	100	22	1300	**178,19**
1625DH	1 9/16"	60	54	100	22	1300	**205,06**
1626M41DH inch	1 5/8"	63	54	100	22	1400	**205,06**
1627M43DH inch	1 11/16"	67	54	100	25	1500	**223,05**
1628DH	1 3/4"	70	54	100	25.5	1600	**229,86**
1629M46DH inch	1 13/16"	70	54	100	25.5	1600	**234,97**
1630DH	1 7/8"	70	54	100	27	1600	**250,29**
1631M49DH inch	1 15/16"	73	54	100	27	1700	**269,32**
1632M51DH inch	2"	73	54	100	27	1700	**288,27**
1633DH	2 1/16"	78	54	100	30	1900	**328,10**
1634M54DH inch	2 1/8"	82	54	104	30	2200	**347,79**
1635DH	2 3/16"	82	54	105	32	2200	**366,74**
1636M57DH inch	2 1/4"	82	54	105	33	2200	**376,07**
1637M59DH inch	2 5/16"	86	54	112	33	2500	**379,69**
1638DH	2 3/8"	86	54	112	35	2500	**454,17**
1639M62DH inch	2 7/16"	92	54	118	35	3000	**508,36**
1640DH	2 1/2"	92	54	118	35	3000	**547,22**
1641M65DH inch	2 9/16"	92	54	118	35	3000	**582,75**
1642M67DH inch	2 5/8"	92	54	118	38	3000	**615,03**
1643DH	2 11/16"	96	54	124	38	3200	**655,30**
1644M70DH inch	2 3/4"	96	54	124	38	3200	**655,30**
1645DH	2 13/16"	100	86	124	40	4300	**655,30**
1646M73DH inch	2 7/8"	100	86	124	41	4300	**758,57**
1647M75DH inch	2 15/16"	100	86	124	41	4300	**839,19**
1648M76DH inch	3"	105	86	130	44	4800	**839,19**
1649DH	3 1/16"	105	86	130	44	4800	**896,71**
1650DH	3 1/8"	105	86	132	44	4800	**896,71**
1651DH	3 3/16"	109	86	132	47	5000	**1089,78**
1652DH	3 1/4"	109	86	132	47	5000	**1152,26**
1653DH	3 5/16"	109	86	132	47	5000	**1152,26**
1654M86DH inch	3 3/8"	115	86	140	49	6000	**1152,26**
1655DH	3 7/16"	121	86	140	49	7000	**1152,26**
1656DH	3 1/2"	121	86	140	49	7000	**1152,26**
1657DH	3 9/16"	127	86	140	49	7200	**1347,99**
1658DH	3 5/8"	130	86	140	49	7400	**1347,99**
1659DH	3 11/16"	130	86	140	49	7400	**1347,99**
1660M95DH inch	3 3/4"	135	86	140	49	7600	**1347,99**
1661DH	3 13/16"	135	86	143	54	7600	**1483,16**
1662DH	3 7/8"	135	86	143	54	7600	**1483,16**
1663M100DH inch	3 15/16"	135	86	143	54	7600	**1483,16**
1664DH	4"	140	127	143	54	10400	**1639,44**
1665DH	4 1/16"	140	127	143	54	10400	**1639,44**
1666M105DH inch	4 1/8"	145	127	143	54	10500	**1639,44**
1667DH	4 3/16"	145	127	149	62	10500	**1925,34**
1668DH	4 1/4"	145	127	149	62	10500	**1925,34**
1669M110DH inch	4 5/16"	150	127	149	62	11200	**1925,34**
1670DH	4 3/8"	150	127	149	62	11200	**2212,94**
1671DH	4 7/16"	155	127	149	62	11700	**2212,94**
1672DH	4 1/2"	155	127	149	62	11700	**2212,94**

16LT 1”

Cap cheie tubulara de impact 1" 6 laturi, cu pereti subtiri, lung

• patrat de antrenare 1” DIN 3121 - forma H 25
• hexagon interior confrom DIN 475/2





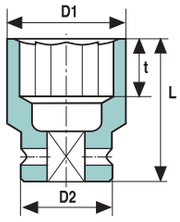
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
16M22LT	22	38	54	100	10	780	**236,97**
16M23LT	23	38	54	100	13	780	**236,97**
16M24LT	24	38	54	100	13	780	**265,10**
16M25LT	25	41	54	100	13	800	**265,10**
16M26LT	26	44	54	100	13	800	**265,10**
1617M27LT	27	44	54	100	13	800	**265,10**
16M28LT	28	44	54	100	14	800	**265,10**
16M29LT	29	44	54	100	16.5	800	**265,10**
1619M30LT	30	49	54	100	16.5	800	**265,10**
16M31LT	31	49	54	100	17	800	**272,94**
16M32LT	32	49	54	100	17	800	**272,94**
16M33LT	33	52	54	100	17	800	**272,94**
16M34LT	34	52	54	100	19	800	**272,94**
1622M35LT	35	52	54	100	19	800	**272,94**
16M36LT	36	53.5	54	100	19	950	**272,94**
16M37LT	37	53.5	54	100	19	1100	**306,70**
1624M38LT	38	57	54	100	22	1100	**306,70**
16M39LT	39	57	54	100	22	1100	**360,08**
16M40LT	40	60	54	100	22	1200	**360,08**
1626M41LT	41	60	54	100	22	1200	**360,08**
16M42LT	42	60	54	100	22	1200	**366,44**
1627M43LT	43	63	54	100	25	1300	**366,44**
16M44LT	44	63	54	100	25	1300	**400,20**
16M45LT	45	67	54	100	25.5	1500	**423,67**
1629M46LT	46	67	54	100	25.5	1500	**423,67**
1614LT	7/8"	38	54	100	10	780	**236,97**
1615LT	15/16"	38	54	100	13	780	**236,97**
1616LT	1"	41	54	100	13	800	**265,10**
1617M27LT inch	1.1/16"	44	54	100	13	800	**265,10**
1618LT	1.1/8"	44	54	100	16.5	800	**265,10**
1619M30LT inch	1.3/16"	49	54	100	16.5	800	**265,10**
1620LT	1.1/4"	49	54	100	17	800	**272,94**
1621LT	1.5/16"	52	54	100	19	800	**272,94**
1622M35LT inch	1.3/8"	52	54	100	19	800	**272,94**
1623LT	1.7/16"	53.5	54	100	19	950	**272,94**
1624M38LT inch	1.1/2"	57	54	100	22	1100	**306,70**
1625LT	1.9/16"	57	54	100	22	1100	**360,08**
1626M41LT inch	1.5/8"	60	54	100	22	1200	**360,08**
1627M43LT inch	1.11/16"	63	54	100	25	1300	**366,44**
1628LT	1.3/4"	67	54	100	25.5	1500	**400,20**
1629M46LT inch	1.13/16"	67	54	100	25.5	1500	**423,67**

16DS 1”

Cap cheie tubulara de impact 1" 8 laturi, scurt

• patrat de antrenare 1” DIN 3121 - forma H 25





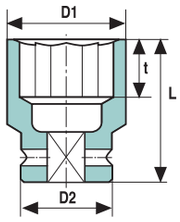
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1622M35DS	35	67	60	58	19	870	**226,01**
1624M38DS	38	70	60	62	22	1000	**259,84**
1626M41DS	41	78	60	62	22	1660	**350,16**
1627M43DS	43	82	60	67	25	1320	**381,69**
1629M46DS	46	86	60	67	25.5	1390	**402,05**
1632M51DS	51	92	60	70	27	1600	**416,86**
1634M54DS	54	100	60	75	30	1780	**451,87**
1636M57DS	57	100	60	78	32	1970	**591,93**
1620DS	1 1/4"	60	58	58	17	710	**178,48**
1621DS	1 5/16"	63	58	58	19	760	**178,48**
1622M35DS inch	1 3/8"	67	58	58	19	870	**226,01**
1623DS	1 7/16"	67	58	58	19	890	**259,84**
1624M38DS inch	1 1/2"	70	60	62	22	1000	**259,84**
1625DS	1 9/16"	78	60	62	22	1170	**304,92**
1626M41DS inch	1 5/8"	78	60	62	22	1660	**350,16**
1627M43DS inch	1 11/16"	82	60	67	25	1320	**381,69**
1628DS	1 3/4"	82	60	67	25.5	1300	**381,69**
1629M46DS inch	1 13/16"	86	60	67	25.5	1390	**402,05**
1630DS	1 7/8"	86	60	70	27	1450	**402,05**
1632M51DS inch	2"	92	60	70	27	1600	**416,86**
1634M54DS inch	2 1/8"	100	60	75	30	1780	**451,87**
1635DS	2 3/16"	100	60	78	32	2040	**470,97**
1636M57DS inch	2 1/4"	100	60	78	32	1970	**591,93**
1638DS	2 3/8"	105	60	82	35	2970	**621,25**
1640DS	2 1/2"	109	60	88	35	2570	**643,90**

16LDS 1”

Cap cheie tubulara de impact 1" 8 laturi, lung

• patrat de antrenare 1” DIN 3121 - forma H 25



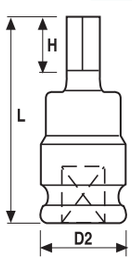


	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
1622M35LDS	35	67	60	81	19	1300	**296,04**
1624M38LDS	38	70	60	87	22	1430	**325,36**
1626M41LDS	41	78	60	88	22	1670	**379,40**
1627M43LDS	43	82	60	88	25	1800	**412,71**
1629M46LDS	46	86	60	88	25.5	1900	**460,24**
1632M51LDS	51	92	60	88	27	2000	**498,88**
1634M54LDS	54	100	60	97	30	2350	**616,66**
1636M57LDS	57	100	60	100	32	2270	**649,75**
1620LDS	1 1/4"	60	54	81	17	1000	**263,39**
1621LDS	1 5/16"	63	54	81	19	1040	**263,39**
1622M35LDS inch	1 3/8"	67	60	81	19	1300	**296,04**
1623LDS	1 7/16"	67	60	81	19	1260	**325,36**
1624M38LDS inch	1 1/2"	70	60	87	22	1430	**325,36**
1625LDS	1 9/16"	78	60	88	22	1670	**376,66**
1626M41LDS inch	1 5/8"	78	60	88	22	1670	**379,40**
1627M43LDS inch	1 11/16"	82	60	88	25	1800	**412,71**
1628LDS	1 3/4"	82	60	88	25.5	1800	**412,71**
1629M46LDS inch	1 13/16"	86	60	88	25.5	1900	**460,24**
1630LDS	1 7/8"	86	60	88	27	1900	**460,24**
1632M51LDS inch	2"	92	60	88	27	2000	**498,88**
1634M54LDS inch	2 1/8"	100	60	97	30	2350	**616,66**
1635LDS	2 3/16"	100	60	97	32	2350	**627,99**
1636M57LDS inch	2 1/4"	100	60	100	32	2270	**649,75**
1638LDS	2 3/8"	105	60	100	35	2350	**700,83**
1640LDS	2 1/2"	109	60	100	35	2640	**810,61**

Cap cheie tubulara de impact cu profil hexagon exterior 1", 1 piesa

• patrat de antrenare 1” DIN 3121 - forma H 25
• hexagon exterior DIN/ISO 2963





	Dimensiune	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	gr	
16M10H	10	54	71	10	680	**134,95**
16M11H	11	54	71	11	680	**134,95**
16M12H	12	54	71	12	680	**134,95**
16M13H	13	54	71	13	680	**148,35**
16M14H	14	54	71	14	680	**148,35**
16M15H	15	54	71	15	680	**148,35**
16M16H	16	54	71	16	620	**148,35**
16M17H	17	54	71	17	680	**148,35**
16M18H	18	54	71	18	700	**148,35**
16M19H	19	54	71	19	700	**148,35**
16M20H	20	54	75	20	730	**163,23**
16M21H	21	54	75	21	730	**163,23**
16M22H	22	54	75	22	730	**163,23**
16M23H	23	54	75	23	740	**163,23**
16M24H	24	54	75	24	740	**163,23**
16M25H	25	54	75	25	790	**165,75**
16M26H	26	54	75	26	790	**165,75**
16M27H	27	54	82	27	790	**165,75**
16M28H	28	54	82	28	415	**165,75**
16M29H	29	54	82	29	415	**165,75**
16M30H	30	54	82	30	415	**165,75**
16M31H	31	54	82	31	920	**165,75**
16M32H	32	54	82	32	920	**165,75**

	Dimensiune	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	gr	
1608H	1/2"	54	71	13	645	**134,95**
1609H	9/16"	54	71	14	670	**134,95**
1610H	5/8"	54	71	16	670	**148,35**
1612H	3/4"	54	71	19	670	**148,35**
1613H	13/16"	54	75	21	700	**148,35**
1614H	7/8"	54	75	22	700	**163,23**
1616H	1"	54	75	25	750	**163,23**
1617H	1 1/16"	54	82	27	780	**165,75**
1618H	1 1/8"	54	82	29	810	**165,75**
1619H	1 3/16"	54	82	30	830	**165,75**
1620H	1 1/4"	54	82	32	930	**165,75**

16H 1”

Cap cheie tubulara impact 1" suport pentru bit profil hexagon exterior

• patrat de antrenare 1” DIN 3121 - forma H 25



	Dimensiune	HEX	
	mm / inch	mm	
16H16	9-16 mm si 3/8"-5/8"	16 mm - 6 point	**129,70**
16H22	17-22 mm si 3/4"-7/8"	22 mm - 6 point	**129,70**
16H32	23-32 mm si 1"-1 1/4"	32 mm - 6 point	**135,32**

Bit pentru cap cheie tubulara impact 1", profil hexagon exterior

• hexagon exterior DIN/ISO 2963



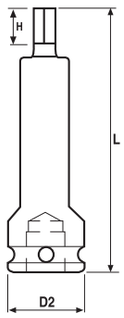
	Dimensiune	Hexagon prindere	
	mm / inch	mm	
HM10	10	16	**17,91**
HM11	11	16	**17,91**
HM12	12	16	**17,91**
HM13	13	16	**17,91**
HM14	14	16	**17,91**
HM15	15	16	**17,91**
HM16	16	16	**17,91**
HM17	17	22	**31,39**
HM18	18	22	**31,39**
HM19	19	22	**31,39**
HM20	20	22	**31,39**
HM21	21	22	**31,39**
HM22	22	22	**31,39**
HM23	23	32	**39,46**
HM24	24	32	**39,46**
HM25	25	32	**39,46**
HM26	26	32	**39,46**
HM27	27	32	**39,46**
HM28	28	32	**39,46**
HM29	29	32	**39,46**
HM30	30	32	**39,46**
HM31	31	32	**39,46**
HM32	32	32	**39,46**
H08	1/2"	16	**17,91**
H09	9/16"	16	**17,91**
H10	5/8"	16	**17,91**
H12	3/4"	22	**31,39**
H13	13/16"	22	**31,39**
H14	7/8"	22	**31,39**
H16	1"	22	**39,46**
H17	1 1/16"	32	**39,46**
H18	1 1/8"	32	**39,46**
H19	1 3/16	32	**39,46**
H20	1 1/4"	32	**39,46**

16HL4 1”

Cap cheie tubulara de impact 1" cu profil hexagon exterior, o piesa, lung 100 mm

- *patrat de antrenare 1/2” DIN 3121 - H 25*
- *profil hexagon exterior DIN/ISO 2963*





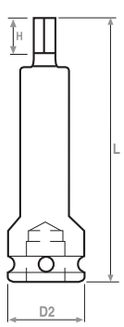
	Dimensiune	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	gr	
16M10HL4	10	54	100	10	500	**216,25**
16M12HL4	12	54	100	12	500	**216,25**
16M14HL4	14	54	100	14	500	**216,25**
16M17HL4	17	54	100	17	500	**216,25**
16M19HL4	19	54	100	19	500	**216,25**
16M22HL4	22	54	100	22	520	**216,25**
16M24HL4	24	54	100	24	520	**216,25**
16M27HL4	27	54	100	27	520	**216,25**
16M30HL4	30	54	100	30	520	**216,25**
16M32HL4	32	54	100	32	520	**216,25**
1608HL4	1/2"	54	100	13	500	**216,25**
1609HL4	9/16"	54	100	14	500	**216,25**
1610HL4	5/8"	54	100	16	500	**216,25**
1612HL4	3/4"	54	100	19	500	**216,25**
1613HL4	13/16"	54	100	21	500	**216,25**
1614HL4	7/8"	54	100	22	520	**216,25**
1616HL4	1"	54	100	25	520	**216,25**
1617HL4	1 1/16"	54	100	27	520	**216,25**
1618HL4	1 1/8"	54	100	29	520	**216,25**
1619HL4	1 3/16"	54	100	30	520	**216,25**
1620HL4	1 1/4"	54	100	32	520	**216,25**

16HL6 1”

Cap cheie tubulara de impact 1" cu profil hexagon exterior, o piesa, lung 150 mm

- *patrat de antrenare 1/2” DIN 3121 - H 25*
- *profil hexagon exterior DIN/ISO 2963*





	Dimensiune	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	gr	
16M10HL6	10	54	150	10	530	**317,46**
16M12HL6	12	54	150	12	530	**317,46**
16M14HL6	14	54	150	14	530	**317,46**
16M17HL6	17	54	150	17	530	**317,46**
16M19HL6	19	54	150	19	530	**317,46**
16M22HL6	22	54	150	22	560	**317,46**
16M24HL6	24	54	150	24	560	**317,46**
16M27HL6	27	54	150	27	560	**317,46**
16M30HL6	30	54	150	30	560	**317,46**
16M32HL6	32	54	150	32	560	**317,46**
1608HL6	1/2"	54	150	13	530	**317,46**
1609HL6	9/16"	54	150	14	530	**317,46**
1610HL6	5/8"	54	150	16	530	**317,46**
1612HL6	3/4"	54	150	19	530	**317,46**
1613HL6	13/16"	54	150	21	530	**317,46**
1614HL6	7/8"	54	150	22	560	**317,46**
1616HL6	1"	54	150	25	560	**317,46**
1617HL6	1 1/16"	54	150	27	560	**317,46**
1618HL6	1 1/8"	54	150	29	560	**317,46**
1619HL6	1 3/16"	54	150	30	560	**317,46**
1620HL6	1 1/4"	54	150	32	560	**317,46**

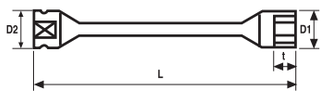


16Q 1”

Cap cheie tubulara de torsiune 1" 6 laturi

- *ideal atunci cand strangerea piulitelor la roti trebuie realizata la un cuplu prestabilit*
- *absoarbe cu ajutorul torsiunii toata puterea suplimentara generata de cheia de impact*
- *realizata din otel de calitate superioara*



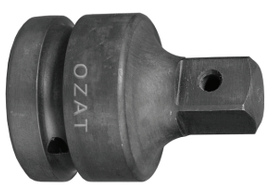


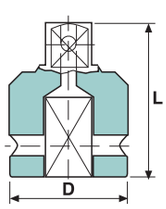
	Dimensiune	D1	D2	L	t min	Torsiune	Greutate	
	MM/inch	mm	mm	mm	mm	Nm	gr	
16M24Q300	24	42	54	305	28	300	1100	**804,84**
16M27Q350	27	46	54	305	28	350	1150	**804,84**
16M27Q450	1 1/16"	46	54	305	28	450	1200	**804,84**
16M30Q450	30	50	54	305	28	450	1250	**815,13**
16M30Q550	1 3/16"	50	54	305	28	450	1300	**815,13**
16M32Q500	32	51	54	305	28	500	1300	**876,57**
16M32Q600	32	51	54	305	28	600	1350	**876,57**
16M32Q700	32	51	54	305	28	700	1400	**876,57**
16M33Q500	33	54	54	305	28	500	1400	**917,59**
16M33Q600	33	54	54	305	28	600	1450	**917,59**
16M33Q650	33	54	54	305	28	650	1500	**917,59**
16M38Q500	38	60	54	305	28	500	1500	**989,32**

A16 1”

Adaptor de impact mama-tata 1"

- *patrat de antrenare 1” DIN 3121 - forma H 25*





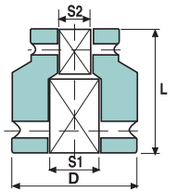
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
A1612	1"	1"	54	77	650	**233,26**
A1624	1"	1"	54	85	1000	**406,57**
A1695	1"	1"	54	110	980	**1279,44**

AN16 1”

Adaptor de impact mama-mama 1"

• *patrat de antrenare 1” DIN 3121 - forma H 25*



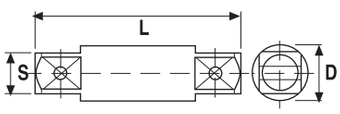


	Patrat		D	L	Greutate	
	interior	interior	mm	mm	gr	
AN1612	1"	3/4"	54	63	680	**339,87**
AN1616	1"	1"	54	59	750	**299,89**
AN2416	1 1/2"	1"	86	83	2050	**899,67**

Z16 1”

Adaptor de impact tata-tata 1"





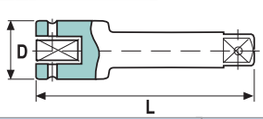
	Patrat		D	L	Greutate	
	exterior	exterior	mm	mm	gr	
Z1603	1"	1"	33	76	400	**99,94**
Z1604	1"	1"	33	101	560	**99,94**
Z1605	1"	1"	33	127	730	**159,98**
Z1606	1"	1"	33	152	870	**439,88**
Z1607	1"	1"	33	177	980	**439,88**
Z1610	1"	1"	33	254	1380	**519,83**
Z1613	1"	1"	33	330	2100	**599,85**
Z1615	1"	1"	33	381	2460	**613,03**
Z1616	1"	1"	33	406	2580	**613,03**
Z1617	1"	1"	33	432	2750	**613,03**

E16 1”

Prelungitor de impact 1"

• *patrat de antrenare 1” DIN 3121 - forma H 25*



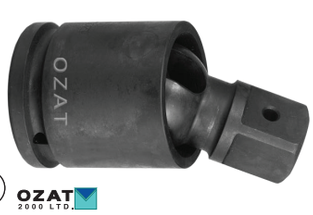


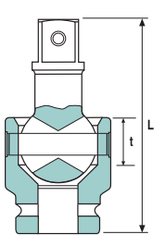
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
E1604	1"	1"	54	100	870	**313,22**
E1605	1"	1"	54	125	1150	**333,28**
E1607	1"	1"	54	175	1500	**379,84**
E1610	1"	1"	54	250	2000	**453,20**
E1613	1"	1"	54	330	2550	**533,15**

U16 1”

Intermediar cardanic de impact 1"

• *patrat de antrenare 1” DIN 3121 - forma H 25*



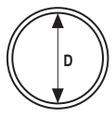


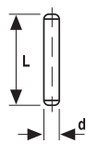
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
U1616	1"	1"	67	136.5	1600	**599,78**

PR16 1”

Accesorii de impact 1"







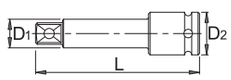
	Patrat	Tip	Q	d	L	D	
				mm	mm	mm	
P16127	1"	pin	Ø 127	5	45	-	**4,00**
P1654	1"	pin	Ø 54	5	77	-	**4,00**
P1686	1"	pin	Ø 86	5	118	-	**4,00**
R16127	1"	inel	Ø 127	-	-	45	**6,66**
R1654	1"	inel	Ø 54	-	-	77	**6,66**
R1686	1"	inel	Ø 86	-	-	118	**6,66**

233.4/4

Prelungitor de impact 1"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*





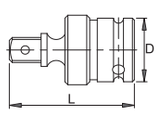
	■	L	D1	D2				
615214	1"	175	34	54	1505	1C	1	**205,28**
615215	1"	250	34	54	2019	1C	1	**246,82**

233.6/4

Intermediar cardanic de impact 1"

- *material:crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





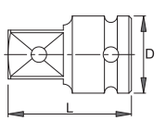
	■	D	L				
615216	1"	54	110	1051	1C	1	**508,53**

233.7/4

Adaptor de impact 1"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*



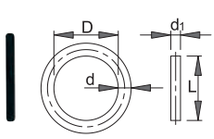


		D	L				
615217	1" - 3/4"	54	75	661	1C	1	**112,81**
617303	1" - 1.1/2"	54	90.5	1107	1C	1	**201,49**

233.8/4

Accesorii de impact 1"





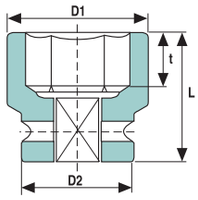
		D	d	L	d1			
615254	22 - 70	46	3.5	43	5	21	1E	1	**34,00**
615255	75 - 80	75	5.7	75	6	38	1E	1	**34,00**

24 1.1/2”

Cap cheie tubulara de impact 1.1/2" 6 laturi, scurt

- *patrat de antrenare 1.1/2” DIN 3121 - forma H 40*
- *hexagon interior confrom DIN 475/2*





	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
24M32	32	60	86	75	17	1800	**414,63**
24M33	33	60	86	75	17	1800	**414,63**
24M34	34	60	86	75	19	1800	**414,63**
2422M35	35	60	86	75	19	1800	**414,63**
24M36	36	64	86	80	19	2200	**445,80**
24M37	37	64	86	80	19	2200	**445,80**
2424M38	38	64	86	80	22	2200	**445,80**
24M39	39	70	86	80	22	2200	**445,80**
24M40	40	70	86	80	22	2200	**445,80**
2426M41	41	70	86	80	22	2200	**445,80**
24M42	42	70	86	80	22	2200	**445,80**
2427M43	43	75	86	80	25	2200	**445,80**
24M44	44	75	86	80	25	2200	**445,80**
24M45	45	75	86	80	25.5	2200	**445,80**
2429M46	46	75	86	80	25.5	2200	**445,80**
24M47	47	75	86	80	25.5	2200	**445,80**
24M48	48	80	86	82	27	2300	**455,20**
2431M49	49	80	86	82	27	2300	**455,20**
24M50	50	80	86	82	27	2300	**455,20**
2432M51	51	80	86	82	27	2300	**455,20**
24M52	52	80	86	82	27	2300	**455,20**
2434M54	54	86	86	89	30	2500	**455,20**
24M55	55	86	86	89	30	2500	**455,20**
24M56	56	86	86	92	32	2500	**508,13**
2436M57	57	86	86	92	32.5	2500	**508,13**
24M58	58	92	86	92	32.5	2800	**508,13**
2437M59	59	92	86	92	33	2800	**508,13**
24M60	60	92	86	92	33	2800	**559,73**
24M61	61	96	86	96	35	3200	**559,73**
2439M62	62	96	86	96	35	3200	**559,73**
2441M65	65	100	86	96	35	3350	**623,54**
2442M67	67	100	86	101	38	3350	**647,90**
2444M70	70	105	86	101	38	3600	**839,56**
2446M73	73	109	86	105	41	3900	**980,29**
2447M75	75	109	86	105	41	3900	**1015,97**
2448M76	76	115	86	110	44	4500	**1085,26**
24M77	77	115	86	110	44	4500	**1190,09**
24M80	80	115	86	110	44	4500	**1190,09**
24M85	85	121	86	116	47	5100	**1259,52**
2454M86	86	127	86	116	49	5500	**1330,96**
24M90	90	130	86	118	49	5600	**1373,45**
2460M95	95	135	127	118	49	7900	**2099,01**
2463M100	100	140	127	125	54	8500	**2350,86**
2466M105	105	150	127	125	54	9500	**2665,85**
2469M110	110	155	127	137	62	10400	**2896,74**
24M115	115	160	127	137	67	11500	**2896,74**
24M120	120	165	127	145	67	12000	**3190,56**
24M125	125	170	127	145	67	12200	**3225,13**
2482M130	130	180	127	158	76	14800	**3398,44**
2421	1 5/16"	60	86	75	19	1800	**414,63**
2422M35 inch	1 3/8"	60	86	75	19	1800	**414,63**
2423	1 7/16"	64	86	80	19	2200	**445,80**
2424M38 inch	1 1/2"	64	86	80	22	2200	**445,80**
2425	1 9/16"	70	86	80	22	2200	**445,80**
2426M41 inch	1 5/8"	70	86	80	22	2200	**445,80**
2427M43 inch	1 11/16"	75	86	80	25	2200	**445,80**
2428	1 3/4"	75	86	80	25.5	2200	**445,80**
2429M46 inch	1 13/16"	75	86	80	25.5	2200	**445,80**
2430	1 7/8"	80	86	82	27	2300	**455,20**
2431M49 inch	1 15/16"	80	86	82	27	2300	**455,20**
2432M51 inch	2"	80	86	82	27	2300	**455,20**
2433	2 1/16"	86	86	89	30	2500	**455,20**
2434M54 inch	2 1/8"	86	86	89	30	2500	**455,20**
2435	2 3/16"	86	86	92	32	2500	**464,90**
2436M57 inch	2 1/4"	86	86	92	32.5	2500	**508,13**
2437M59 inch	2 5/16"	92	86	92	33	2800	**508,13**
2438	2 3/8"	92	86	96	35	2800	**559,73**
2439M62 inch	2 7/16"	96	86	96	35	3200	**559,73**

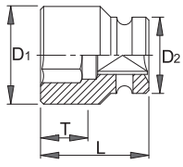
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
2440	2 1/2"	100	86	96	35	3350	**623,54**
2441M65 inch	2 9/16"	100	86	96	35	3350	**623,54**
2442M67 inch	2 5/8"	100	86	101	38	3350	**647,90**
2443	2 11/16"	105	86	101	38	3600	**713,78**
2444M70 inch	2 3/4"	105	86	101	38	3600	**839,56**
2445	2 13/16"	109	86	105	40	3900	**902,63**
2446M73 inch	2 7/8"	109	86	105	41	3900	**980,29**
2447M75 inch	2 15/16"	109	86	105	41	3900	**1015,97**
2448M76 inch	3"	115	86	110	44	4500	**1085,26**
2449	3 1/16"	115	86	110	44	4500	**1121,02**
2450	3 1/8"	115	86	110	44	4500	**1190,09**
2451	3 3/16"	121	86	116	47	5100	**1190,09**
2452	3 1/4"	121	86	116	47	5100	**1225,84**
2453	3 5/16"	121	86	116	47	5100	**1259,52**
2454M86 inch	3 3/8"	127	86	116	49	5500	**1330,96**
2455	3 7/16"	127	86	118	49	5500	**1364,50**
2456	3 1/2"	130	86	118	49	5600	**1364,50**
2457	3 9/16"	130	86	118	49	5600	**1540,76**
2458	3 5/8"	135	127	118	49	7900	**1784,31**
2459	3 11/16"	135	127	118	49	7900	**2099,01**
2460M95 inch	3 3/4"	135	127	118	49	7900	**2099,01**
2461	3 13/16"	140	127	125	54	8500	**2141,06**
2462	3 7/8"	140	127	125	54	8500	**2246,03**
2463M100 inch	3 15/16"	140	127	125	54	8500	**2350,86**
2464	4"	145	127	125	54	9000	**2350,86**
2465	4 1/16"	145	127	125	54	9000	**2665,85**
2466M105 inch	4 1/8"	150	127	125	54	9500	**2665,85**
2467	4 3/16"	150	127	137	62	10200	**2665,85**
2468	4 1/4"	150	127	137	62	10200	**2665,85**
2469M110 inch	4 5/16"	155	127	137	62	10400	**2896,74**
2470	4 3/8"	155	127	137	62	10400	**2896,74**
2471	4 7/16"	155	127	137	62	10400	**2896,74**
2472	4 1/2"	160	127	137	62	11500	**2896,74**
2474	4 5/8"	165	127	143	67	12000	**3190,56**
2476	4 3/4"	165	127	145	67	12000	**3190,56**
2478	4 7/8"	170	127	145	67	12200	**3225,13**
2480	5"	180	127	150	72	14800	**3398,44**
2482M130 inch	5 1/8"	180	127	158	76	14800	**3398,44**
2483	5 3/16"	180	127	158	76	14800	**4331,27**
2486	5 3/8"	190	127	158	76	16700	**4664,47**

234/4 6p

Capete de IMPACT 1.1/2"

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*
- *in conformitate cu standardul ISO 2725-2(numai dimensiunile in mm)*





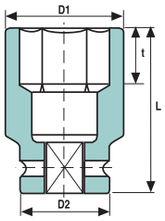
		D1	D2	L	T				
616790	80	116	86	110	54	5224	1C	1	**1074,57**
616791	85	125	86	118	52	5688	1C	1	**1139,51**
616793	90	130	86	118	52	6395	1C	1	**1228,38**
616794	95	138	86	118	52	6995	1C	1	**1357,29**
616795	100	140	86	125	59	7995	1C	1	**1584,51**
616796	105	150	95	125	59	8995	1C	1	**1717,56**
616797	110	156	95	125	59	8995	1C	1	**1776,42**
616798	115	160	95	135	67	9035	1C	1	**2024,12**
616799	120	168	95	135	67	10195	1C	1	**2198,41**

24L 1.1/2”

Cap cheie tubulara de impact 1.1/2" 6 laturi, lung

• patrat de antrenare 1.1/2” DIN 3121 - forma H 40
• hexagon interior confrom DIN 475/2





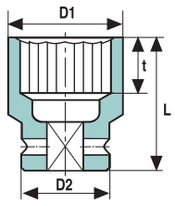
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
24M32L	32	60	86	140	17	4500	**633,83**
24M33L	33	60	86	140	17	4500	**633,83**
24M34L	34	60	86	140	19	4500	**633,83**
2422M35L	35	60	86	140	19	4500	**633,83**
24M36L	36	64	86	140	19	4500	**633,83**
24M37L	37	64	86	140	19	4500	**633,83**
2424M38L	38	64	86	140	22	4500	**633,83**
24M39L	39	70	86	140	22	4500	**633,83**
24M40L	40	70	86	140	22	4500	**633,83**
2426M41L	41	70	86	140	22	4500	**633,83**
24M42L	42	70	86	140	22	4500	**665,52**
2427M43L	43	75	86	140	25	4500	**665,52**
24M44L	44	75	86	140	25	4500	**665,52**
24M45L	45	75	86	140	25.5	4500	**665,52**
2429M46L	46	75	86	140	25.5	4500	**665,52**
24M47L	47	75	86	140	25.5	4500	**665,52**
24M48L	48	80	86	140	27	4500	**734,73**
2431M49L	49	80	86	140	27	4500	**734,73**
24M50L	50	80	86	140	27	4500	**734,73**
2432M51L	51	80	86	140	27	4500	**734,73**
24M52L	52	80	86	140	27	4500	**734,73**
2434M54L	54	86	86	140	30	4500	**839,56**
24M55L	55	86	86	140	30	4500	**839,56**
24M56L	56	86	86	140	32	4500	**871,17**
2436M57L	57	86	86	140	32.5	4500	**871,17**
24M58L	58	92	86	140	32.5	4600	**913,07**
2437M59L	59	92	86	140	33	4600	**913,07**
24M60L	60	92	86	140	33	4600	**986,58**
24M61L	61	96	86	140	35	4800	**986,58**
2439M62L	62	96	86	140	35	4800	**986,58**
2441M65L	65	100	86	140	35	4900	**1049,58**
2442M67L	67	100	86	140	38	4900	**1091,40**
2444M70L	70	105	86	140	38	5000	**1332,96**
2446M73L	73	109	86	140	41	5600	**1469,40**
2447M75L	75	109	86	140	41	5600	**1469,40**
2448M76L	76	115	86	140	44	5900	**1511,44**
24M77L	77	115	86	140	44	5900	**1574,29**
24M80L	80	115	86	140	44	5900	**1574,29**
24M85L	85	121	86	140	47	6200	**1805,19**
2454M86L	86	127	86	140	49	6600	**1938,59**
24M90L	90	130	86	140	49	6800	**2139,06**
2460M95L	95	135	127	150	49	9900	**2578,94**
2463M100L	100	140	127	150	54	10700	**3118,61**
2466M105L	105	150	127	150	54	11900	**3438,41**
2469M110L	110	155	127	160	62	12500	**3758,29**
24M115L	115	160	127	160	67	13200	**3858,15**
24M120L	120	165	127	170	67	14300	**3918,19**
24M125L	125	170	127	170	67	14600	**3998,22**
2482M130L	130	180	127	185	76	18200	**4138,06**
2421L	1 5/16"	60	86	140	19	4500	**633,83**
2422M35L inch	1 3/8"	60	86	140	19	4500	**633,83**
2423L	1 7/16"	64	86	140	19	4500	**633,83**
2424M38L inch	1 1/2"	64	86	140	22	4500	**633,83**
2425L	1 9/16"	70	86	140	22	4500	**633,83**
2426M41L inch	1 5/8"	70	86	140	22	4500	**633,83**
2427M43L inch	1 11/16"	75	86	140	25	4500	**665,52**
2428L	1 3/4"	75	86	140	25.5	4500	**665,52**
2429M46L inch	1 13/16"	75	86	140	25.5	4500	**665,52**
2430L	1 7/8"	80	86	140	27	4500	**665,52**
2431M49L inch	1 15/16"	80	86	140	27	4500	**734,73**
2432M51L inch	2"	80	86	140	27	4500	**734,73**
2433L	2 1/16"	86	86	140	30	4500	**734,73**
2434M54L inch	2 1/8"	86	86	140	30	4500	**839,56**
2435L	2 3/16"	86	86	140	32	4500	**839,56**
2436M57L inch	2 1/4"	86	86	140	32.5	4500	**871,17**
2437M59L inch	2 5/16"	92	86	140	33	4600	**913,07**
2438L	2 3/8"	92	86	140	35	4600	**986,58**
2439M62L inch	2 7/16"	96	86	140	35	4800	**986,58**
2440L	2 1/2"	100	86	140	35	4900	**986,58**
2441M65L inch	2 9/16"	100	86	140	35	4900	**1049,58**
2442M67L inch	2 5/8"	100	86	140	38	4900	**1091,40**
2443L	2 11/16"	105	86	140	38	5000	**1259,52**
2444M70L inch	2 3/4"	105	86	140	38	5000	**1332,96**
2445L	2 13/16"	109	86	140	40	5600	**1364,50**
2446M73L inch	2 7/8"	109	86	140	41	5600	**1469,40**
2447M75L inch	2 15/16"	109	86	140	41	5600	**1469,40**
2448M76L inch	3"	115	86	140	44	5900	**1511,44**
2449L	3 1/16"	115	86	140	44	5900	**1574,29**
2450L	3 1/8"	115	86	140	44	5900	**1574,29**
2451L	3 3/16"	121	86	140	47	6200	**1721,32**
2452L	3 1/4"	121	86	140	47	6200	**1721,32**
2453L	3 5/16"	121	86	140	47	6200	**1805,19**
2454M86L inch	3 3/8"	127	86	140	49	6600	**1938,59**
2455L	3 7/16"	127	86	140	49	6600	**2025,72**
2456L	3 1/2"	130	86	140	49	6800	**2139,06**
2457L	3 9/16"	130	86	140	49	6800	**2158,90**
2458L	3 5/8"	135	127	140	49	9900	**2432,29**
2459L	3 11/16"	135	127	140	49	9900	**2578,94**
2460M95L inch	3 3/4"	135	127	150	49	9900	**2578,94**
2461L	3 13/16"	140	127	150	54	10700	**2878,68**
2462L	3 7/8"	140	127	150	54	10700	**2878,68**
2463M100L inch	3 15/16"	140	127	150	54	10700	**3118,61**
2464L	4"	145	127	150	54	11200	**3118,61**
2465L	4 1/16"	145	127	150	54	11200	**3438,41**
2466M105L inch	4 1/8"	150	127	150	54	11900	**3438,41**
2467L	4 3/16"	150	127	150	62	11900	**3438,41**
2468L	4 1/4"	150	127	160	62	11900	**3438,41**
2469M110L inch	4 5/16"	155	127	160	62	12500	**3758,29**
2470L	4 3/8"	155	127	160	62	12500	**3758,29**
2471L	4 7/16"	155	127	160	62	12500	**3858,15**
2472L	4 1/2"	160	127	160	62	13200	**3858,15**
2474L	4 5/8"	165	127	170	67	14300	**3918,19**
2476L	4 3/4"	165	127	170	67	14300	**3918,19**
2478L	4 7/8"	170	127	170	67	14600	**3998,22**
2480L	5"	180	127	180	72	18200	**4138,06**
2482M130L	5 1/8"	180	127	185	76	18200	**4138,06**
2483L	5 3/16"	180	127	185	76	18200	**5197,55**
2486L	5 3/8"	190	127	185	76	19000	**5597,38**

24DH 1.1/2”

Cap cheie tubulara de impact 1.1/2" 12 laturi, scurt

• patrat de antrenare 1.1/2” DIN 3121 - forma H 40





	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
24M32DH	32	60	86	75	17	1800	**489,11**
24M33DH	33	60	86	75	17	1800	**489,11**
24M34DH	34	60	86	75	19	1800	**489,11**
2422M35DH	35	60	86	75	19	1800	**489,11**
24M36DH	36	64	86	80	19	2200	**526,05**
24M37DH	37	64	86	80	19	2200	**526,05**
2424M38DH	38	64	86	80	22	2200	**526,05**
24M39DH	39	70	86	80	22	2200	**526,05**
24M40DH	40	70	86	80	22	2200	**526,05**
2426M41DH	41	70	86	80	22	2200	**526,05**
24M42DH	42	70	86	80	22	2200	**526,05**
2427M43DH	43	75	86	80	25	2200	**526,05**
24M44DH	44	75	86	80	25	2200	**526,05**
24M45DH	45	75	86	80	25.5	2200	**526,05**
2429M46DH	46	75	86	80	25.5	2200	**526,05**
24M47DH	47	75	86	80	25.5	2200	**526,05**
24M48DH	48	80	86	82	27	2300	**537,15**
2431M49DH	49	80	86	82	27	2300	**537,15**
24M50DH	50	80	86	82	27	2300	**537,15**
2432M51DH	51	80	86	82	27	2300	**537,15**
24M52DH	52	80	86	82	27	2300	**537,15**
2434M54DH	54	86	86	89	30	2500	**537,15**
24M55DH	55	86	86	89	30	2500	**537,15**
24M56DH	56	86	86	92	32	2500	**599,41**
2436M57DH	57	86	86	92	33	2500	**599,41**
24M58DH	58	92	86	92	33	2800	**599,41**
2437M59DH	59	92	86	92	33	2800	**599,41**
24M60DH	60	92	86	92	35	2800	**660,48**
24M61DH	61	96	86	96	35	3200	**660,48**
2439M62DH	62	96	86	96	35	3200	**660,48**
2441M65DH	65	100	86	96	35	3350	**735,70**
2442M67DH	67	100	86	101	38	3350	**768,34**
2444M70DH	70	105	86	101	38	3600	**990,80**

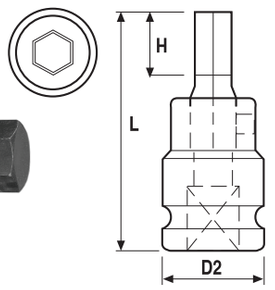
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
2446M73DH	73	109	86	105	41	3900	**1156,70**
2447M75DH	75	109	86	105	41	3900	**1198,82**
2448M76DH	76	115	86	110	44	4500	**1280,62**
24M77DH	77	115	86	110	44	4500	**1404,32**
24M80DH	80	115	86	110	44	4500	**1404,32**
24M85DH	85	121	86	116	47	5100	**1486,13**
2454M86DH	86	127	86	116	49	5500	**1570,44**
24M90DH	90	130	86	118	49	5600	**1620,78**
2460M95DH	95	135	127	118	49	7900	**2476,78**
2463M100DH	100	140	127	125	54	8500	**2774,08**
2466M105DH	105	150	127	125	54	9500	**3145,63**
2469M110DH	110	155	127	137	62	10400	**3418,05**
24M115DH	115	160	127	137	67	11500	**3418,05**
24M120DH	120	165	127	145	67	12000	**3764,88**
24M125DH	125	170	127	145	67	12200	**3805,52**
2421DH	1 5/16"	60	86	75	19	1800	**489,11**
2422M35DH inch	1 3/8"	60	86	75	19	1800	**489,11**
2423DH	1 7/16"	64	86	80	19	2200	**526,05**
2424M38DH inch	1 1/2"	64	86	80	22	2200	**526,05**
2425DH	1 9/16"	70	86	80	22	2200	**526,05**
2426M41DH inch	1 5/8"	70	86	80	22	2200	**526,05**
2427M43DH inch	1 11/16"	75	86	80	25	2200	**526,05**
2428DH	1 3/4"	75	86	80	25.5	2200	**526,05**
2429M46DH inch	1 13/16"	75	86	80	25.5	2200	**526,05**
2430DH	1 7/8"	80	86	82	27	2300	**537,15**
2431M49DH inch	1 15/16"	80	86	82	27	2300	**537,15**
2432M51DH inch	2"	80	86	82	27	2300	**537,15**
2433DH	2 1/16"	86	86	89	30	2500	**537,15**
2434M54DH inch	2 1/8"	86	86	89	30	2500	**537,15**
2435DH	2 3/16"	86	86	92	32	2500	**548,55**
2436M57DH inch	2 1/4"	86	86	92	33	2500	**599,41**
2437M59DH inch	2 5/16"	92	86	92	33	2800	**599,41**
2438DH	2 3/8"	92	86	96	35	2800	**660,48**
2439M62DH inch	2 7/16"	96	86	96	35	3200	**660,48**
2440DH	2 1/2"	100	86	96	35	3350	**735,70**
2441M65DH inch	2 9/16"	100	86	96	35	3350	**735,70**
2442M67DH inch	2 5/8"	100	86	101	38	3350	**768,34**
2443DH	2 11/16"	105	86	101	38	3600	**842,22**
2444M70DH inch	2 3/4"	105	86	101	38	3600	**990,80**
2445DH	2 13/16"	109	86	105	40	3900	**1065,05**
2446M73DH inch	2 7/8"	109	86	105	41	3900	**1156,70**
2447M75DH inch	2 15/16"	109	86	105	41	3900	**1198,82**
2448M76DH inch	3"	115	86	110	44	4500	**1280,62**
2449DH	3 1/16"	115	86	110	44	4500	**1404,32**
2450DH	3 1/8"	115	86	110	44	4500	**1404,32**
2451DH	3 3/16"	121	86	116	47	5100	**1404,32**
2452DH	3 1/4"	121	86	116	47	5100	**1446,45**
2453DH	3 5/16"	121	86	116	47	5100	**1486,13**
2454M86DH inch	3 3/8"	127	86	116	49	5500	**1570,44**
2455DH	3 7/16"	127	86	118	49	5500	**1610,20**
2456DH	3 1/2"	130	86	118	49	5600	**1610,20**
2457DH	3 9/16"	130	86	118	49	5600	**1818,07**
2458DH	3 5/8"	135	127	118	49	7900	**2105,45**
2459DH	3 11/16"	135	127	118	49	7900	**2476,78**
2460M95DH inch	3 3/4"	135	127	118	49	7900	**2476,78**
2461DH	3 13/16"	140	127	125	54	8500	**2526,60**
2462DH	3 7/8"	140	127	125	54	8500	**2650,30**
2463M100DH inch	3 15/16"	140	127	125	54	8500	**2774,08**
2464DH	4"	145	127	125	54	9000	**2774,08**
2465DH	4 1/16"	145	127	125	54	9000	**3145,63**
2466M105DH inch	4 1/8"	150	127	125	54	9500	**3145,63**
2467DH	4 3/16"	150	127	137	62	10200	**3145,63**
2468DH	4 1/4"	150	127	137	62	10200	**3145,63**
2469M110DH inch	4 5/16"	155	127	137	62	10400	**3418,05**
2470DH	4 3/8"	155	127	137	62	10400	**3418,05**
2471DH	4 7/16"	155	127	137	62	10400	**3418,05**
2472DH	4 1/2"	160	127	137	62	11500	**3418,05**
2474DH	4 5/8"	165	127	143	67	12000	**3764,88**
2476DH	4 3/4"	165	127	145	67	12000	**3764,88**
2478DH	4 7/8"	170	127	145	67	12200	**3805,52**
2480DH	5"	180	127	150	72	14800	**4010,13**
2482M130DH inch	5 1/8"	180	127	158	76	14800	**4010,13**
2483DH	5 3/16"	180	127	158	76	14800	**5111,01**
2486DH	5 3/8"	190	127	158	76	16700	**5504,11**

24V 1.1/2”

Cap cheie tubulara de impact cu profil hexagon exterior 1.1/2", 2 piese

• patrat de antrenare 1.1/2” DIN 3121 - forma H 40





1 1/2" 40mm OZAT 2000 LTD.

	Dimensiune	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	gr	
24M22V	22	86	113	22	2600	**733,99**
24M24V	24	86	115	24	2600	**752,95**
24M27V	27	86	118	27	2600	**752,95**
24M30V	30	86	121	30	2800	**762,87**
24M32V	32	86	123	32	2800	**772,79**
24M36V	36	86	127	36	3400	**772,79**
24M38V	38	86	129	38	3400	**772,79**
24M41V	41	86	132	41	3520	**783,45**
24M46V	46	86	137	46	4700	**783,45**
24M50V	50	86	141	50	4900	**865,91**
24M55V	55	86	146	55	5100	**865,91**
2416V	1"	86	116	25	2600	**752,95**
2418V	1.1/8"	86	119	28	2600	**752,95**
2420V	1.1/4"	86	123	32	2800	**762,87**
2422V	1.3/8"	86	126	35	3400	**772,79**
2424V	1.1/2"	86	129	38	3400	**772,79**
2426V	1.5/8"	86	132	41	3250	**772,79**
2428V	1.3/4"	86	135	44	2520	**783,45**
2429V	1.13/16"	86	137	46	4700	**783,45**
2430V	1.7/8"	86	139	48	4900	**865,91**
2432V	2"	86	142	51	4900	**865,91**
2434V	2.1/8"	86	145	54	5100	**865,91**

H24 1.1/2”

Bit pentru cap cheie tubulara impact 1.1/2", profil hexagon exterior

• hexagon exterior DIN/ISO 2963



OZAT 2000 LTD.

	Dimensiune	Hexagon prindere	
	mm / inch	mm	
HM22	22 mm	22	**31,39**
HM24	24 mm	32	**39,46**
HM27	27 mm	32	**39,46**
HM30	30 mm	32	**39,46**
HM32	32 mm	32	**39,46**
HM36	36 mm	41	**273,68**
HM38	38 mm	41	**287,08**
HM41	41 mm	41	**307,07**
HM46	46 mm	55	**407,23**
HM50	50 mm	55	**413,89**
HM55	55 mm	55	**420,56**
H16	1"	22	**39,46**
H18	1 1/8"	32	**39,46**
H20	1 1/4"	32	**39,46**
H22	1 3/8"	41	**273,68**
H24	1 1/2"	41	**287,08**
H26	1 5/8"	41	**307,07**
H28	1 3/4"	41	**313,73**
H29	1 13/16"	55	**407,23**
H30	1 7/8"	55	**407,23**
H32	2"	55	**413,89**
H34	2 1/8"	55	**420,56**

24H 1.1/2”

Cap cheie tubulara impact 1.1/2" suport pentru bit profil hexagon exterior

• patrat de antrenare 1.1/2” DIN 3121 - forma H 40

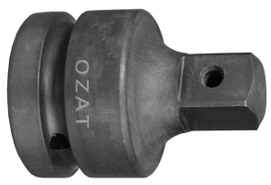


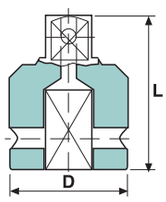
	Dimensiune	HEX	
	mm / inch	mm	
24H22	17-22 mm si 3/4"-7/8"	22 mm	**702,53**
24H32	23-32 mm si 1"-1.1/4"	32 mm	**733,33**
24H41	36-41 mm si 1.3/8"-1.3/4"	41 mm	**752,21**
24H55	46-55 mm si 1.13/16"-2.1/8"	55 mm	**771,23**

A24 1.1/2”

Adaptor de impact mama-tata 1.1/2"

• patrat de antrenare 1.1/2” DIN 3121 - forma H 40





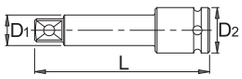
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
A2416	1 1/2"	1"	86	95	2300	**879,68**
A2440	1 1/2"	2 1/2"	86	93	2500	**4397,90**
A2495	1 1/2"	Spline 5	86	138	2530	**2345,52**

234.4/4

Prelungitor de impact 1.1/2

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*





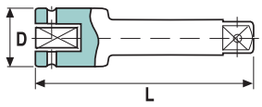
		L	D1	D2				
617709	1.1/2"	250	49	86	5652	1C	1	**2027,18**

E24 1.1/2”

Prelungitor de impact 1.1/2"

• patrat de antrenare 1.1/2” DIN 3121 - forma H 40





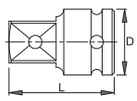
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
E2406	1 1/2"	1 1/2"	86	150	3980	**1351,32**
E2409	1 1/2"	1 1/2"	86	225	4540	**1553,49**
E2412	1 1/2"	1 1/2"	86	300	5000	**1728,20**
E2420	1 1/2"	1 1/2"	86	500	8200	**1959,32**

234.7/4

Adaptor de IMPACT 1.1/2"

- *material: crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*



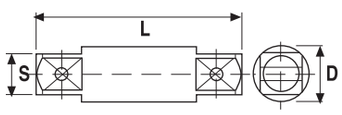


		D	L				
616800	1.1/2" - 1"	86	100	2203	1C	1	**767,13**
617711	1.1/2" - 2.1/2"	86	120	3986	1C	1	**1035,17**

Z24 1.1/2”

Adaptor de impact tata-tata 1.1/2"





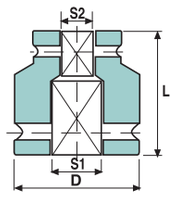
	Patrat		D	L	Greutate	
	exterior	exterior	mm	mm	gr	
Z2404	1 1/2"	1 1/2"	49	101	1200	**379,84**
Z2405	1 1/2"	1 1/2"	49	127	1540	**379,84**
Z2410	1 1/2"	1 1/2"	49	254	3420	**739,69**
Z2420	1 1/2"	1 1/2"	49	508	6550	**1259,52**

AN24 1.1/2”

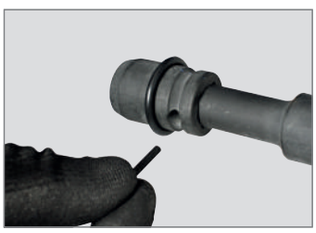
Adaptor de impact mama-mama 1.1/2"

• patrat de antrenare 1.1/2” DIN 3121 - forma H 40





	Patrat		D	L	Greutate	
	interior	interior	mm	mm	gr	
AN2416	1 1/2"	1"	86	83	2050	**899,67**
AN2424	1 1/2"	1 1/2"	86	85	2690	**819,72**
AN4024	2 1/2"	1 1/2"	127	115	6500	**3698,33**



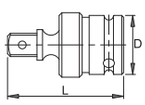


234.6/4

Intermediar cardanic de IMPACT 1,1/2

- *material:crom molibden*
- *forjata, calire si revenire totala*
- *acoperire prin brunare dupa standardul DIN 12476*





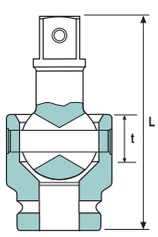
		L	D				
617689	1.1/2"	182	86	4098	1C	1	**1982,92**

U24 1.1/2”

Intermediar cardanic de impact 1.1/2"

- *patrat de antrenare 1.1/2” DIN 3121 - forma H 40*

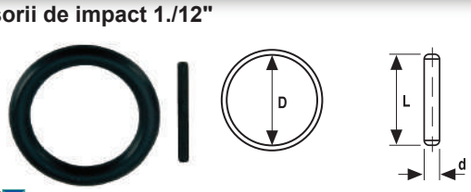




	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
U2424	1.1/2"	1.1/2"	86	125	4070	**1865,82**

PR24 1.1/2”

Accesorii de impact 1./12"

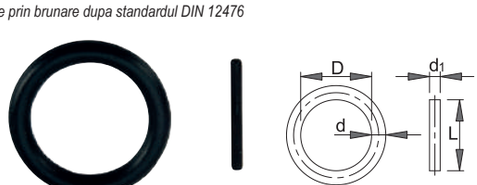


	Patrat	Tip	Q	d	L	D	
				mm	mm	mm	
P2486	1.1/2"	pin	Ø 86	75	75	-	**5,63**
P24127	1.1/2"	pin	Ø 127	116	116	-	**5,63**
R2486	1.1/2"	inel	Ø 86	-	-	75	**9,33**
R24127	1.1/2"	inel	Ø 127	-	-	116	**9,33**

234.8/4

Accesorii de impact 1.1/2”

- *material:crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*



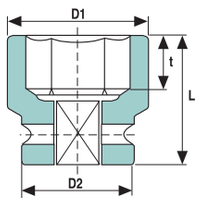
		D	d	L	d1				
617126	80 - 90	75	5.7	75	6	55	1E	1	**33,27**
617127	95 - 120	85	5.7	84	6	40	1E	1	**33,27**

40 2.1/2”

Cap cheie tubulara de impact 2.1/2" 6 laturi, scurt

- *patrat de antrenare 2.1/2” DIN 3121 - forma H 63*
- *hexagon interior confrom DIN 475/2*





	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
4026M41	41	104	127	115	21.5	7000	**2812,05**
40M42	42	104	127	115	21.5	7000	**2812,05**
4027M43	43	104	127	115	25	7000	**2812,05**
40M44	44	104	127	115	25	7000	**2812,05**
40M45	45	104	127	115	25.5	7000	**2812,05**
4029M46	46	104	127	115	25.5	7000	**2812,05**
40M47	47	104	127	115	25.5	7000	**2812,05**
40M48	48	104	127	115	27	7000	**2812,05**
4031M49	49	104	127	115	27	7000	**2812,05**
40M50	50	104	127	115	27	7000	**2812,05**
4032M51	51	104	127	115	27	7000	**2812,05**
40M52	52	104	127	115	27	7000	**2812,05**
4034M54	54	104	127	115	30	7000	**2918,66**
40M55	55	104	127	115	30	7000	**2918,66**
40M56	56	104	127	115	32	7000	**2918,66**
4036M57	57	104	127	115	32.5	7000	**2918,66**
40M58	58	104	127	115	32.5	7000	**2918,66**
4037M59	59	104	127	115	33	7000	**2918,66**
40M60	60	104	127	115	33	7000	**2918,66**
40M61	61	104	127	115	35	7000	**2971,96**
4039M62	62	104	127	115	35	7000	**2971,96**
4041M65	65	104	127	115	35	7000	**2971,96**
4042M67	67	104	127	115	38	7000	**2971,96**
4044M70	70	104	127	115	38	7000	**2971,96**
4046M73	73	115	127	125	41	7600	**2971,96**
4047M75	75	115	127	125	41	7600	**2971,96**
4048M76	76	115	127	125	44	7600	**2971,96**
40M77	77	115	127	125	44	7600	**2971,96**
40M80	80	115	127	125	44	7600	**2971,96**
40M85	85	127	127	130	47	8000	**3211,81**
4054M86	86	127	127	130	49	8000	**3518,29**
40M90	90	135	127	132	49	8100	**3518,29**
4060M95	95	140	127	132	49	8200	**3744,89**
4063M100	100	145	127	141	54	9000	**4611,17**
4066M105	105	150	127	141	54	9600	**4657,96**
4069M110	110	160	127	150	62	11000	**5410,76**
40M115	115	165	127	150	62	11500	**5970,49**
40M120	120	170	127	158	67	12000	**6796,87**
40M125	125	170	127	158	67	12000	**7016,74**
4082M130	130	180	127	174	76	14100	**8356,06**
40M135	135	190	127	174	76	17000	**8356,06**
4088M140	140	190	127	176	79	17000	**8476,06**
40M145	145	200	150	182	83	20000	**8476,06**
4094M150	150	210	150	190	88	22000	**10794,86**
40M155	155	210	150	190	88	22000	**10794,86**
40M160	160	220	150	194	91	23000	**12494,12**
40104M165	165	230	175	201	94	30000	**12494,12**
40M170	170	230	175	201	94	30000	**14233,35**
40110M175	175	240	175	208	99	32000	**17032,00**
40M180	180	240	175	214	104	32000	**17511,78**
40116M185	185	250	175	214	104	36000	**19111,02**
40M190	190	260	175	218	107	40000	**20230,49**
40122M195	195	260	175	222	109	40000	**20230,49**
40125M200	200	270	175	226	112	44000	**23269,07**
40132M210	210	280	175	232	115	48000	**25907,82**
40M215	215	290	175	239	120	51000	**29985,84**
40142M225	225	300	175	258	126	60000	**29985,84**
40M230	230	310	175	258	128	66000	**33983,98**
40M235	235	310	175	275	131	66000	**33983,98**
4026M41 inch	1 5/8"	104	127	115	21.5	7000	**2812,05**
4027M43 inch	1 11/16"	104	127	115	25	7000	**2812,05**

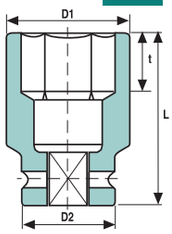
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
4028	1 3/4"	104	127	115	25.5	7000	**2812,05**
4029M46 inch	1 13/16"	104	127	115	25.5	7000	**2812,05**
4030	1 7/8"	104	127	115	27	7000	**2812,05**
4031M49 inch	1 15/16"	104	127	115	27	7000	**2812,05**
4032M51 inch	2"	104	127	115	27	7000	**2812,05**
4033	2 1/16"	104	127	115	30	7000	**2918,66**
4034M54 inch	2 1/8"	104	127	115	30	7000	**20,88**
4035	2 3/16"	104	127	115	32	7000	**2918,66**
4036M57 inch	2 1/4"	104	127	115	32.5	7000	**2918,66**
4037M59 inch	2 5/16"	104	127	115	33	7000	**2918,66**
4038	2 3/8"	104	127	115	35	7000	**2971,96**
4039M62 inch	2 7/16"	104	127	115	35	7000	**2971,96**
4040	2 1/2"	104	127	115	35	7000	**2971,96**
4041M65 inch	2 9/16"	104	127	115	35	7000	**2971,96**
4042M67 inch	2 5/8"	104	127	115	38	7000	**2971,96**
4043	2 11/16"	104	127	115	38	7000	**2971,96**
4044M70 inch	2 3/4"	104	127	115	38	7000	**20,88**
4045	2 13/16"	115	127	125	40	7600	**2971,96**
4046M73 inch	2 7/8"	115	127	125	41	7600	**2971,96**
4047M75 inch	2 15/16"	115	127	125	41	7600	**2971,96**
4048M76 inch	3"	115	127	125	44	7600	**2971,96**
4049	3 1/16"	115	127	125	44	7600	**2971,96**
4050	3 1/8"	127	127	125	44	7600	**3105,28**
4051	3 3/16"	127	127	130	47	8000	**3211,81**
4052	3 1/4"	127	127	130	47	8000	**3211,81**
4053	3 5/16"	127	127	130	47	8000	**3518,29**
4054M86 inch	3 3/8"	127	127	130	49	8000	**20,88**
4055	3 7/16"	135	127	132	49	8100	**3518,29**
4056	3 1/2"	135	127	132	49	8100	**3518,29**
4057	3 9/16"	135	127	132	49	8100	**3518,29**
4058	3 5/8"	135	127	132	49	8100	**3744,89**
4059	3 11/16"	140	127	132	49	8200	**3744,89**
4060M95 inch	3 3/4"	140	127	132	49	8200	**4611,17**
4061	3 13/16"	145	127	141	54	9000	**4611,17**
4062	3 7/8"	145	127	141	54	9000	**4611,17**
4063M100 inch	3 15/16"	145	127	141	54	9000	**4657,96**
4064	4"	150	127	141	54	9600	**4657,96**
4065	4 1/16"	150	127	141	54	9600	**4657,96**
4066M105 inch	4 1/8"	150	127	141	54	9600	**5410,76**
4067	4 3/16"	155	127	150	62	10500	**5410,76**
4068	4 1/4"	155	127	150	62	10500	**5410,76**
4069M110 inch	4 5/16"	160	127	150	62	11000	**5410,76**
4070	4 3/8"	160	127	150	62	11000	**5970,49**
4071	4 7/16"	165	127	150	62	11300	**5970,49**
4072	4 1/2"	165	127	150	62	11300	**5970,49**
4074	4 5/8"	170	127	158	67	12000	**6796,87**
4076	4 3/4"	170	127	158	67	12000	**6796,87**
4078	4 7/8"	170	127	158	67	12000	**7016,74**
4080	5"	180	127	165	72	14100	**8356,06**
4082M130	5 1/8"	180	127	174	76	14100	**8356,06**
4083	5 3/16"	180	127	174	76	14100	**8356,06**
4084	5 1/4"	190	127	174	76	17000	**8476,06**
4086	5 3/8"	190	127	174	76	17000	**8476,06**
4088M140 inch	5 1/2"	190	127	176	79	17000	**8476,06**
4090	5 5/8"	200	150	182	83	20000	**8476,06**
4092	5 3/4"	200	150	182	83	20000	**10794,86**
4094M150 inch	5 7/8"	210	150	190	88	22000	**10794,86**
4096	6"	210	150	190	88	22000	**10794,86**
4098	6 1/8"	210	150	190	88	22000	**12494,12**
40100	6 1/4"	220	150	194	91	23000	**12494,12**
40102	6 3/8"	220	150	194	91	23000	**12494,12**
40104M165 inch	6 1/2"	230	175	201	94	30000	**14233,35**
40106	6 5/8"	230	175	201	94	30000	**14233,35**
40108	6 3/4"	230	175	208	99	30000	**17032,00**
40110M175 inch	6 7/8"	240	175	208	99	32000	**17511,78**
40112	7"	240	175	214	104	32000	**19111,02**
40114	7 1/8"	250	175	214	104	36000	**19111,02**
40116M185 inch	7 1/4"	250	175	214	104	36000	**19111,02**
40118	7 3/8"	250	175	218	107	36000	**20230,49**
40120	7 1/2"	260	175	218	107	40000	**20230,49**
40122M195 inch	7 5/8"	260	175	222	109	40000	**23269,07**
40124	7 3/4"	270	175	226	112	44000	**23269,07**
40125M200 inch	7 13/16"	270	175	226	112	44000	**23269,07**
40126	7 7/8"	270	175	226	112	44000	**23269,07**
40128	8"	270	175	232	115	44000	**25907,82**
40130	8 1/8"	280	175	232	115	48000	**25907,82**
40132M210 inch	8 1/4"	280	175	232	115	48000	**25907,82**
40134	8 3/8"	290	175	239	120	51000	**29985,84**
40136	8 1/2"	290	175	250	122	51000	**29985,84**
40140	8 3/4"	300	175	253	124	60000	**29985,84**
40142M225 inch	8 7/8"	300	175	258	126	60000	**33983,98**
40144	9"	310	175	258	128	66000	**33983,98**
40146	9 1/8"	310	175	258	131	66000	**33983,98**
40148	9 1/4"	310	175	275	133	66000	

40L 2.1/2”

Cap cheie tubulara de impact 2.1/2" 6 laturi, lung

• patrat de antrenare 2.1/2” DIN 3121 - forma H 63
• hexagon interior confrom DIN 475/2





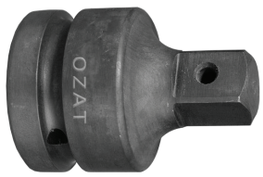
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
4026M41L	41	104	127	192	21.5	11000	**4637,90**
40M42L	42	104	127	192	21.5	11000	**4637,90**
4027M43L	43	104	127	192	25	11000	**4637,90**
40M44L	44	104	127	192	25	11000	**4637,90**
40M45L	45	104	127	192	25.5	11000	**4637,90**
4029M46L	46	104	127	192	25.5	11000	**4637,90**
40M47L	47	104	127	192	25.5	11000	**4637,90**
40M48L	48	104	127	192	27	11000	**4637,90**
4031M49L	49	104	127	192	27	11000	**4637,90**
40M50L	50	104	127	192	27	11000	**4637,90**
4032M51L	51	104	127	192	27	11000	**4637,90**
40M52L	52	104	127	192	27	11000	**4637,90**
4034M54L	54	104	127	192	30	11000	**4637,90**
40M55L	55	104	127	192	30	11000	**4637,90**
40M56L	56	104	127	192	32	11000	**4637,90**
4036M57L	57	104	127	192	32.5	11000	**4637,90**
40M58L	58	104	127	192	32.5	11000	**4637,90**
4037M59L	59	104	127	192	33	11000	**4637,90**
40M60L	60	104	127	192	33	11000	**4637,90**
40M61L	61	104	127	192	35	11000	**4877,75**
4039M62L	62	104	127	192	35	11000	**4877,75**
4041M65L	65	104	127	192	35	11000	**4877,75**
4042M67L	67	104	127	192	38	11000	**4877,75**
4044M70L	70	104	127	192	38	11000	**4877,75**
4046M73L	73	115	127	192	41	11000	**4877,75**
4047M75L	75	115	127	192	41	11000	**4877,75**
4048M76L	76	115	127	192	44	11000	**4877,75**
40M77L	77	115	127	192	44	11000	**4877,75**
40M80L	80	115	127	192	44	11000	**4877,75**
40M85L	85	127	127	192	47	11000	**4877,75**
4054M86L	86	127	127	192	49	11000	**4877,75**
40M90L	90	135	127	192	49	12500	**5357,53**
4060M95L	95	140	127	192	49	13000	**5997,14**
4063M100L	100	145	127	198	54	14000	**5997,14**
4066M105L	105	150	127	198	54	15500	**6796,87**
4069M110L	110	160	127	207	62	17000	**7596,45**
40M115L	115	165	127	207	67	18000	**7596,45**
40M120L	120	170	127	215	67	19000	**9115,82**
40M125L	125	170	127	215	67	19000	**9835,38**
4082M130L	130	180	127	223	76	20000	**9835,38**
40M135L	135	190	127	231	76	22000	**10661,76**
4088M140L	140	190	127	234	79	22000	**10954,84**
40M145L	145	200	150	240	83	26000	**10954,84**
4094M150L	150	210	150	248	88	30000	**14073,37**
40M155L	155	210	150	248	88	30000	**14073,37**
40M160L	160	220	150	252	91	33000	**15592,66**
40104M165L	165	230	175	260	94	38000	**15992,42**
40M170L	170	230	175	260	94	38000	**18071,59**
40110M175L	175	240	175	264	99	41000	**21270,00**
40M180L	180	240	175	272	104	41000	**21270,00**
40116M185L	185	250	175	272	104	45000	**23349,02**
40M190L	190	260	175	276	107	50000	**25987,77**
40122M195L	195	260	175	280	109	50000	**25987,77**
40125M200L	200	270	175	284	112	55000	**29985,84**
40132M210L	210	280	175	290	115	60000	**29985,84**
40M215L	215	290	175	316	120	70000	**35982,98**
40142M225L	225	300	175	316	126	75000	**36649,38**
40M230L	230	310	175	316	128	80000	**36649,38**
40M235L	235	310	175	333	131	80000	**37315,86**
4026M41L inch	1 5/8"	104	127	192	21.5	11000	**4637,90**
4027M43L inch	1 11/16"	104	127	192	25	11000	**4637,90**
4028L	1 3/4"	104	127	192	25.5	11000	**4637,90**
4029M46L inch	1 13/16"	104	127	192	25.5	11000	**4637,90**
4030L	1 7/8"	104	127	192	27	11000	**4637,90**
4031M49L inch	1 15/16"	104	127	192	27	11000	**4637,90**
4032M51L inch	2"	104	127	192	27	11000	**4637,90**
4033L	2 1/16"	104	127	192	30	11000	**4637,90**
4034M54L inch	2 1/8"	104	127	192	30	11000	**4637,90**
4035L	2 3/16"	104	127	192	32	11000	**4637,90**
4036M57L inch	2 1/4"	104	127	192	32.5	11000	**4637,90**
4037M59L inch	2 5/16"	104	127	192	33	11000	**4637,90**
4038L	2 3/8"	104	127	192	35	11000	**4637,90**
4039M62L inch	2 7/16"	104	127	192	35	11000	**4877,75**
4040L	2 1/2"	104	127	192	35	11000	**4877,75**

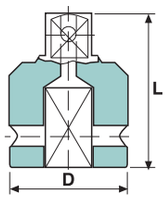
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
4041M65L inch	2 9/16"	104	127	192	35	11000	**4877,75**
4042M67L inch	2 5/8"	104	127	192	38	11000	**4877,75**
4043L	2 11/16"	104	127	192	38	11000	**4877,75**
4044M70L inch	2 3/4"	104	127	192	38	11000	**4877,75**
4045L	2 13/16"	115	127	192	40	11000	**4877,75**
4046M73L inch	2 7/8"	115	127	192	41	11000	**4877,75**
4047M75L inch	2 15/16"	115	127	192	41	11000	**4877,75**
4048M76L inch	3"	115	127	192	44	11000	**4877,75**
4049L	3 1/16"	115	127	192	44	11000	**4877,75**
4050L	3 1/8"	127	127	192	44	11000	**4877,75**
4051L	3 3/16"	127	127	192	47	11000	**4877,75**
4052L	3 1/4"	127	127	192	47	11000	**4877,75**
4053L	3 5/16"	127	127	192	47	11000	**4877,75**
4054M86L inch	3 3/8"	127	127	192	49	11000	**4877,75**
4055L	3 7/16"	135	127	192	49	12500	**4877,75**
4056L	3 1/2"	135	127	192	49	12500	**5357,53**
4057L	3 9/16"	135	127	192	49	12500	**5357,53**
4058L	3 5/8"	135	127	192	49	12500	**5357,53**
4059L	3 11/16"	140	127	192	49	13000	**5357,53**
4060M95L inch	3 3/4"	140	127	192	49	13000	**5997,14**
4061L	3 13/16"	145	127	198	54	14000	**5997,14**
4062L	3 7/8"	145	127	198	54	14000	**5997,14**
4063M100L inch	3 15/16"	145	127	198	54	14000	**5997,14**
4064L	4"	150	127	198	54	15500	**6796,87**
4065L	4 1/16"	150	127	198	54	15500	**6796,87**
4066M105L inch	4 1/8"	150	127	198	54	15500	**6796,87**
4067L	4 3/16"	155	127	207	62	16000	**7596,45**
4068L	4 1/4"	155	127	207	62	16000	**7596,45**
4069M110L inch	4 5/16"	160	127	207	62	17000	**7596,45**
4070L	4 3/8"	160	127	207	62	17000	**7596,45**
4071L	4 7/16"	165	127	207	62	18000	**7596,45**
4072L	4 1/2"	165	127	207	62	18000	**7596,45**
4074L	4 5/8"	170	127	215	67	19000	**9115,82**
4076L	4 3/4"	170	127	215	67	19000	**9115,82**
4078L	4 7/8"	170	127	215	67	19000	**9115,82**
4080L	5"	180	127	223	72	20000	**9835,38**
4082M130L inch	5 1/8"	180	127	223	76	20000	**9835,38**
4083L	5 3/16"	180	127	231	76	20000	**9835,38**
4084L	5 1/4"	190	127	231	76	22000	**10661,76**
4086L	5 3/8"	190	127	231	76	22000	**10954,84**
4088M140L inch	5 1/2"	190	127	234	79	22000	**10954,84**
4090L	5 5/8"	200	150	240	83	26000	**10954,84**
4092L	5 3/4"	200	150	240	83	26000	**13273,86**
4094M150L inch	5 7/8"	210	150	248	88	30000	**14073,37**
4096L	6"	210	150	248	88	30000	**14073,37**
4098L	6 1/8"	210	150	248	88	30000	**14553,15**
40100L	6 1/4"	220	150	252	91	33000	**15592,66**
40102L	6 3/8"	220	150	252	91	33000	**15992,42**
40104M165L inch	6 1/2"	230	175	260	94	38000	**15992,42**
40106L	6 5/8"	230	175	260	94	38000	**18071,59**
40108L	6 3/4"	230	175	264	99	38000	**18071,59**
40110M175L inch	6 7/8"	240	175	264	99	41000	**21270,00**
40112L	7"	240	175	272	104	41000	**21270,00**
40114L	7 1/8"	250	175	272	104	45000	**23349,02**
40116M185L inch	7 1/4"	250	175	272	104	45000	**23349,02**
40118L	7 3/8"	250	175	276	107	45000	**23349,02**
40120L	7 1/2"	260	175	276	107	50000	**25987,77**
40122M195L inch	7 5/8"	260	175	280	109	50000	**25987,77**
40124L	7 3/4"	270	175	284	112	55000	**29985,84**
40125M200L inch	7 13/16"	270	175	284	112	55000	**29985,84**
40126L	7 7/8"	270	175	284	112	55000	**29985,84**
40128L	8"	270	175	290	115	55000	**29985,84**
40130L	8 1/8"	280	175	290	115	60000	**29985,84**
40132M210L inch	8 1/4"	280	175	290	115	60000	**29985,84**
40134L	8 3/8"	290	175	297	120	70000	**35982,98**
40136L	8 1/2"	290	175	316	122	70000	**35982,98**
40140L	8 3/4"	300	175	316	124	75000	**35982,98**
40142M225L inch	8 7/8"	300	175	316	126	75000	**36649,38**
40144L	9"	310	175	316	128	80000	**36649,38**
40146L	9 1/8"	310	175	316	131	80000	**36649,38**
40148L	9 1/4"	310	175	333	133	80000	**37315,86**

A40 2.1/2”

Adaptor de impact mama-tata 2.1/2"

• patrat de antrenare 2.1/2” DIN 3121 - forma H 63



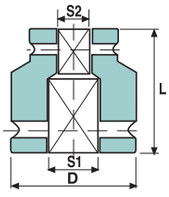


	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
A4024	2 1/2"	1 1/2"	127	138	6560	**4078,17**
A4056	2 1/2"	3 1/2"	127	142	7960	**14393,32**

AN40 2.1/2”

Adaptor de impact mama-mama 2.1/2"



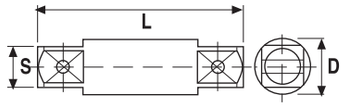


	Patrat		D	L	Greutate	
	interior	interior	mm	mm	gr	
AN4024	2 1/2"	2 1/2"	127	115	6500	**3698,33**
AN4040	2 1/2"	2 1/2"	127	117	7400	**2758,68**
AN5640	3 1/2"	2 1/2"	175	161	16120	**10661,76**

Z40 2.1/2”

Adaptor de impact tata-tata 2.1/2"

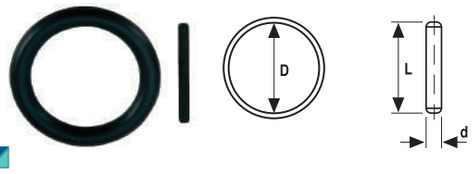




	Patrat		D	L	Greutate	
	exterior	exterior	mm	mm	gr	
Z4005	2 1/2"	2 1/2"	84	127	5000	**699,72**
Z4006	2 1/2"	2 1/2"	84	152	6000	**699,72**
Z4008	2 1/2"	2 1/2"	84	203	7500	**959,63**
Z4010	2 1/2"	2 1/2"	84	254	9500	**1119,46**
Z4015	2 1/2"	2 1/2"	84	381	15000	**1519,44**
Z4020	2 1/2"	2 1/2"	84	508	20500	**1919,19**
Z4026	2 1/2"	2 1/2"	84	660	26500	**2398,90**

PR40 2.1/2”

Accesorii de impact 2.1/2"

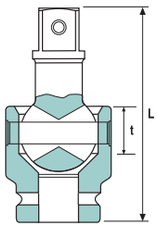


	Patrat	Tip	Q	d	L	D	
				mm	mm	mm	
P40127	2.1/2"	pin	Ø 127	8	110	-	**16,06**
P40150	2.1/2"	pin	Ø 150	8	133	-	**16,06**
P40175	2.1/2"	pin	Ø 175	8	158	-	**16,06**
R40127	2.1/2"	inel	Ø 127	-	-	114	**43,90**
R40150	2.1/2"	inel	Ø 150	-	-	136	**43,90**
R40175	2.1/2"	inel	Ø 175	-	-	162	**43,90**

U40 2.1/2”

Intermediar cardanic de impact 2.1/2"





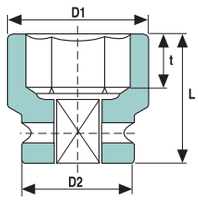
	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
U4040	2.1/2"	2.1/2"	127	200	12300	**8969,32**

56 3.1/2”

Cap cheie tubulara de impact 3.1/2" 6 laturi, scurt

• patrat de antrenare 3.1/2” DIN 3121 - forma H 90
• hexagon interior confrom DIN 475/2





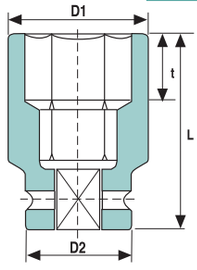
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
5663M100	100	175	175	165	54	19200	**8062,83**
5666M105	105	175	175	165	54	19200	**8062,83**
5669M110	110	175	175	174	62	19200	**8062,83**
56M115	115	175	175	174	62	19200	**8289,44**
56M120	120	175	175	182	67	20100	**8955,77**
56M125	125	175	175	182	67	20100	**8955,77**
5682M130	130	190	175	198	76	22200	**8955,77**
56M135	135	190	175	198	76	22200	**11194,84**
5688M140	140	200	175	205	79	23000	**11914,47**
56M145	145	210	175	212	83	33100	**12873,96**
5694M150	150	210	175	212	88	33100	**12873,96**
56M155	155	220	175	214	88	36000	**12873,96**
56M160	160	220	175	218	91	36000	**15272,71**
56104M165	165	230	175	230	94	40000	**15272,71**
56M170	170	240	175	230	94	46000	**17671,76**
56110M175	175	250	175	230	99	52000	**17671,76**
56M180	180	250	175	237	104	52000	**20950,12**
56116M185	185	260	175	237	104	59000	**20950,12**
56M190	190	260	175	242	107	59000	**22149,61**
56122M195	195	270	175	246	109	62000	**22149,61**
56125M200	200	280	175	249	112	70000	**23988,70**
56132M210	210	290	175	256	115	74000	**28786,35**
56M215	215	300	175	263	120	81000	**34383,81**
56142M225	225	310	175	273	126	90000	**34383,81**
56M230	230	310	175	276	128	90000	**34383,81**
56M235	235	320	175	279	131	96000	**35903,10**
5662	3 7/8"	175	175	165	54	19200	**8062,83**
5663M100 inch	3 15/16"	175	175	165	54	19200	**8062,83**
5664	4"	175	175	165	54	19200	**8062,83**
5665	4 1/16"	175	175	165	54	19200	**8062,83**
5666M105 inch	4 1/8"	175	175	165	54	19200	**8062,83**
5667	4 3/16"	175	175	174	62	19200	**8062,83**
5668	4 1/4"	175	175	174	62	19200	**8062,83**
5669M110 inch	4 5/16"	175	175	174	62	19200	**8062,83**
5670	4 3/8"	175	175	174	62	19200	**8289,44**
5671	4 7/16"	175	175	174	62	19200	**8289,44**
5672	4 1/2"	175	175	174	62	19200	**8289,44**
5674	4 5/8"	175	175	182	67	20100	**8955,77**
5676	4 3/4"	175	175	182	67	20100	**8955,77**
5678	4 7/8"	175	175	182	67	20100	**8955,77**
5680	5"	190	175	190	72	22200	**8955,77**
5682M130 inch	5 1/8"	190	175	198	76	22200	**8955,77**
5683	5 3/16"	190	175	198	76	22200	**8955,77**
5684	5 1/4"	190	175	198	76	22200	**8955,77**
5686	5 3/8"	200	175	198	76	23000	**11194,84**
5688M140 inch	5 1/2"	200	175	205	79	23000	**11914,47**
5690	5 5/8"	210	175	212	83	33100	**12873,96**
5692	5 3/4"	210	175	212	83	33100	**12873,96**
5694M150 inch	5 7/8"	210	175	212	88	33100	**12873,96**
5696	6"	220	175	214	88	36000	**13753,49**
5698	6 1/8"	220	175	214	88	36000	**13753,49**
56100	6 1/4"	220	175	218	91	36000	**15272,71**
56102	6 3/8"	230	175	218	91	40000	**15272,71**
56104M165 inch	6 1/2"	230	175	230	94	40000	**15272,71**
56106	6 5/8"	240	175	230	94	46000	**17671,76**
56108	6 3/4"	240	175	230	99	46000	**17671,76**
56110M175 inch	6 7/8"	250	175	230	99	52000	**17671,76**
56112	7"	250	175	237	104	52000	**20950,12**
56114	7 1/8"	250	175	237	104	52000	**20950,12**
56116M185 inch	7 1/4"	260	175	237	104	59000	**20950,12**
56118	7 3/8"	260	175	242	107	59000	**22149,61**
56120	7 1/2"	260	175	242	107	59000	**22149,61**
56122M195 inch	7 5/8"	270	175	246	109	62000	**22149,61**
56124	7 3/4"	270	175	249	112	62000	**23988,70**
56125M200 inch	7 13/16"	280	175	249	112	70000	**23988,70**
56126	7 7/8"	280	175	249	112	70000	**23988,70**
56128	8"	280	175	256	115	70000	**23988,70**
56130	8 1/8"	290	175	256	115	74000	**28786,35**
56132M210 inch	8 1/4"	290	175	256	115	74000	**28786,35**
56134	8 3/8"	290	175	263	120	74000	**28786,35**
56136	8 1/2"	300	175	267	122	81000	**34383,81**
56156	8 3/4"	300	175	270	124	81000	**34383,81**
56142M225 inch	8 7/8"	310	175	273	126	90000	**34383,81**
56144	9"	310	175	276	128	90000	**34383,81**
56146	9 1/8"	320	175	279	131	96000	**35903,10**
56148	9 1/4"	320	175	285	133	96000	**35903,10**
56164	10 1/4"	340	175	330	145	128000	**38648,45**

56L 3.1/2”

Cap cheie tubulara de impact 3.1/2" 6 laturi, lung

• patrat de antrenare 3.1/2” DIN 3121 - forma H 90
• hexagon interior confrom DIN 475/2





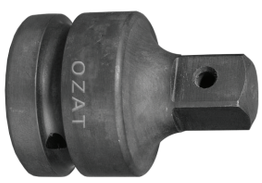
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
5663M100L	100	175	175	277	54	32000	**12727,38**
5666M105L	105	175	175	277	54	32000	**12727,38**
5669M110L	110	175	175	277	62	32000	**12887,21**
56M115L	115	175	175	277	62	32000	**12887,21**
56M120L	120	175	175	277	67	32000	**13127,21**
56M125L	125	175	175	277	67	32000	**13127,21**
5682M130L	130	190	175	280	76	35000	**14033,40**
56M135L	135	190	175	280	76	35000	**14033,40**
5688M140L	140	200	175	288	79	40000	**15992,42**
56M145L	145	210	175	295	83	45600	**15992,42**
5694M150L	150	210	175	295	88	45600	**17151,85**
56M155L	155	220	175	297	88	50200	**18071,07**
56M160L	160	220	175	301	91	50200	**21323,37**
56104M165L	165	230	175	313	94	56000	**21323,37**
56M170L	170	240	175	313	94	62000	**22869,24**
56110M175L	175	250	175	313	99	70000	**22869,24**
56M180L	180	250	175	320	104	70000	**27986,84**
56116M185L	185	260	175	320	104	75000	**27986,84**
56M190L	190	260	175	324	107	75000	**29319,51**
56122M195L	195	270	175	328	109	82000	**30652,24**
56125M200L	200	280	175	332	112	89000	**30652,24**
56132M210L	210	290	175	339	115	96000	**38648,45**
56M215L	215	300	175	346	120	107000	**39981,19**
56142M225L	225	310	175	357	126	116000	**42646,59**
56M230L	230	310	175	359	128	116000	**42646,59**
56M235L	235	320	175	362	131	125000	**42646,59**
5662L	3 7/8"	175	175	277	54	32000	**12727,38**
5663M100L	3 15/16"	175	175	277	54	32000	**12727,38**
5664L	4"	175	175	277	54	32000	**12727,38**
5665L	4 1/16"	175	175	277	54	32000	**12727,38**
5666M105L	4 1/8"	175	175	277	54	32000	**12727,38**
5667L	4 3/16"	175	175	277	62	32000	**12887,21**
5668L	4 1/4"	175	175	277	62	32000	**12887,21**
5669M110L	4 5/16"	175	175	277	62	32000	**12887,21**

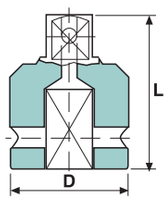
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
5670L	4 3/8"	175	175	277	62	32000	**12887,21**
5671L	4 7/16"	175	175	277	62	32000	**12887,21**
5672L	4 1/2"	175	175	277	62	32000	**12887,21**
5674L	4 5/8"	175	175	277	67	32000	**13127,21**
5676L	4 3/4"	175	175	277	67	32000	**13127,21**
5678L	4 7/8"	175	175	277	67	32000	**13127,21**
5680L	5"	190	175	277	72	35000	**13127,21**
5682M130L	5 1/8"	190	175	280	76	35000	**14033,40**
5683L	5 3/16"	190	175	280	76	35000	**14033,40**
5684L	5 1/4"	190	175	280	76	35000	**14033,40**
5686L	5 3/8"	200	175	280	76	40000	**14033,40**
5688M140L	5 1/2"	200	175	288	79	40000	**15992,42**
5690L	5 5/8"	210	175	295	83	45600	**15992,42**
5692L	5 3/4"	210	175	295	83	45600	**15992,42**
5694M150L	5 7/8"	210	175	295	88	45600	**17151,85**
5696L	6"	220	175	297	88	50200	**18071,07**
5698L	6 1/8"	220	175	297	88	50200	**18071,07**
56100L	6 1/4"	220	175	301	91	50200	**21323,37**
56102L	6 3/8"	230	175	301	91	56000	**21323,37**
56104M165L	6 1/2"	230	175	313	94	56000	**21323,37**
56106L	6 5/8"	240	175	313	94	62000	**22869,24**
56108L	6 3/4"	240	175	313	99	62000	**22869,24**
56110M175L	6 7/8"	250	175	313	99	70000	**22869,24**
56112L	7"	250	175	320	104	70000	**22869,24**
56114L	7 1/8"	250	175	320	104	70000	**27986,84**
56116M185L	7 1/4"	260	175	320	104	75000	**27986,84**
56118L	7 3/8"	260	175	324	107	75000	**29319,51**
56120L	7 1/2"	260	175	324	107	75000	**30652,24**
56122M195L	7 5/8"	270	175	328	109	82000	**30652,24**
56124L	7 3/4"	270	175	332	112	82000	**30652,24**
56125M200L	7 13/16"	280	175	332	112	89000	**30652,24**
56126L	7 7/8"	280	175	332	112	89000	**30652,24**
56128L	8"	280	175	339	115	89000	**31984,84**
56130L	8 1/8"	290	175	339	115	96000	**38648,45**
56132M210L	8 1/4"	290	175	339	115	96000	**38648,45**
56134L	8 3/8"	290	175	346	120	96000	**38648,45**
56136L	8 1/2"	300	175	350	122	107000	**42646,59**
56140L	8 3/4"	300	175	354	124	107000	**42646,59**
56142M225L	8 7/8"	310	175	357	126	116000	**42646,59**
56144L	9"	310	175	359	128	116000	**42646,59**
56146L	9 1/8"	320	175	362	131	125000	**42646,59**
56148L	9 1/4"	320	175	370	133	125000	**42646,59**
56164L	10 1/4"	340	175	413	145	160000	**45312,00**

A56 3.1/2”

Adaptor de impact mama-tata 3.1/2"

• patrat de antrenare 3.1/2" DIN 3121 - forma H 90



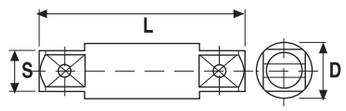


	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
A5640	3 1/2"	2 1/2"	175	183	15740	**13393,71**

Z56 3.1/2”

Adaptor de impact tata-tata 3.1/2"



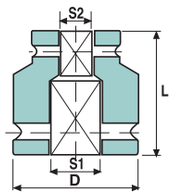


	Patrat		D	L	Greutate	
	exterior	exterior	mm	mm	gr	
Z5610	3 1/2"	3 1/2"	119	254	23000	**2398,90**
Z5620	3 1/2"	3 1/2"	119	508	44000	**6596,92**
Z5640	3 1/2"	3 1/2"	119	1016	88000	**6596,92**

AN56 3.1/2”

Adaptor de impact mama-mama 3.1/2"



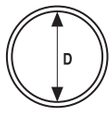


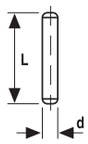
	Patrat		D	L	Greutate	
	interior	interior	mm	mm	gr	
AN5640	3 1/2"	2 1/2"	175	161	16120	**10661,76**
AN5656	3 1/2"	3 1/2"	175	167	19400	**11394,64**

PR56 3.1/2”

Accesorii de impact 3.1/2"





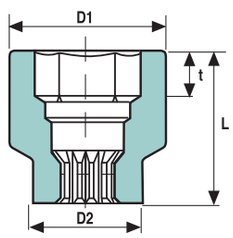


	Patrat	Tip	Q	d	L	D	
				mm	mm	mm	
P56175	3.1/2"	pin	Ø 175	10	160	-	**30,13**
R56175	3.1/2"	inel	Ø 175	-	-	160	**70,11**

95 5-spline

Cap cheie tubulara de impact 5 SPLINE, 6 laturi, scurt



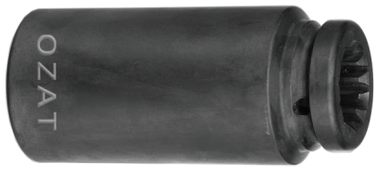


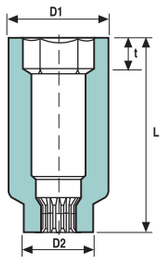
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
9512M19	19	48	60	70	9.5	840	**394,87**
95M20	20	48	60	70	10	840	**394,87**
95M21	21	48	60	70	11	840	**394,87**
95M22	22	48	60	70	11	840	**394,87**
95M23	23	48	60	70	13	840	**394,87**
95M24	24	49	60	70	13	840	**394,87**
95M25	25	49	60	70	13	840	**394,87**
95M26	26	51	60	70	13	840	**394,87**
9517M27	27	51	60	70	13	840	**394,87**
95M28	28	51	60	70	14	840	**394,87**
95M29	29	54	60	70	16.5	840	**394,87**
9519M30	30	54	60	70	16.5	840	**394,87**
95M31	31	60	60	75	16.5	950	**394,87**
95M32	32	60	60	75	17	950	**394,87**
95M33	33	60	60	75	17	950	**394,87**
95M34	34	60	60	77	19	1050	**394,87**
9522M35	35	60	60	77	19	1050	**394,87**
95M36	36	63	60	77	19	1050	**403,90**
95M37	37	63	60	77	19	1050	**403,90**
9524M38	38	63	60	80	22	1050	**403,90**
95M39	39	67	60	80	22	1200	**450,98**
95M40	40	67	60	80	22	1200	**450,98**
9526M41	41	67	60	80	22	1200	**450,98**
95M42	42	67	60	80	22	1200	**450,98**
9527M43	43	67	60	84	25	1200	**497,92**
95M44	44	73	60	84	25	1450	**497,92**
95M45	45	73	60	84	25.5	1450	**497,92**
9529M46	46	73	60	84	25.5	1450	**497,92**

	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
95M47	47	73	60	84	25.5	1450	**497,92**
95M48	48	73	60	88	27	1450	**497,92**
9531M49	49	73	60	88	27	1450	**497,92**
95M50	50	82	60	88	27	1900	**497,92**
9532M51	51	82	60	88	27	1900	**497,92**
95M52	52	82	60	88	27	1900	**497,92**
9534M54	54	82	60	93	30	1900	**497,92**
95M55	55	82	60	93	30	1900	**497,92**
95M56	56	88	86	96	32	2800	**568,98**
9536M57	57	88	86	96	33	2800	**568,98**
95M58	58	88	86	96	33	2800	**568,98**
9537M59	59	88	86	96	33	2800	**568,98**
95M60	60	88	86	96	33	2800	**568,98**
95M61	61	88	86	98	35	2800	**568,98**
9539M62	62	88	86	100	35	2800	**568,98**
9541M65	65	100	86	100	35	3600	**719,63**
9542M67	67	100	86	102	38	3600	**719,63**
9544M70	70	100	86	102	38	3600	**784,78**
9546M73	73	105	86	108	41	4100	**980,29**
9547M75	75	105	86	108	41	4100	**1015,97**
9548M76	76	109	86	114	44	4400	**1021,67**
95M77	77	109	86	114	44	4400	**1021,67**
95M80	80	115	86	114	44	4500	**1021,67**
9512M19 inch	3/4"	48	60	70	9.5	840	**394,87**
9513	13/16"	48	60	70	11	840	**394,87**
9514	7/8"	48	60	70	13	840	**394,87**
9515	15/16"	48	60	70	13	840	**394,87**
9516	1"	49	60	70	13	840	**394,87**
9517M27 inch	1 1/16"	51	60	70	13	840	**394,87**
9518	1 1/8"	51	60	70	16.5	840	**394,87**
9519M30 inch	1 3/16"	54	60	70	16.5	840	**394,87**
9520	1 1/4"	60	60	75	17	950	**394,87**
9521	1 5/16"	60	60	77	19	1050	**394,87**
9522M35 inch	1 3/8"	60	60	77	19	1050	**394,87**
9523	1 7/16"	63	60	77	19	1050	**403,90**
9524M38 inch	1 1/2"	63	60	80	22	1050	**403,90**
9525	1 9/16"	67	60	80	22	1200	**450,98**
9526M41 inch	1 5/8"	67	60	80	22	1200	**450,98**
9527M43 inch	1 11/16"	67	60	84	25	1200	**497,92**
9528	1 3/4"	73	60	84	25.5	1450	**497,92**
9529M46 inch	1 13/16"	73	60	84	25.5	1450	**497,92**
9530	1 7/8"	73	60	88	27	1450	**497,92**
9531M49 inch	1 15/16"	73	60	88	27	1450	**497,92**
9532M51 inch	2"	82	60	88	27	1900	**497,92**
9533	2 1/16"	82	60	93	30	1900	**497,92**
9534M54 inch	2 1/8"	82	60	93	30	1900	**497,92**
9535	2 3/16"	82	60	96	32	1900	**568,98**
9536M57 inch	2 1/4"	88	86	96	33	2800	**568,98**
9537M59 inch	2 5/16"	88	86	96	33	2800	**568,98**
9538	2 3/8"	88	86	98	35	2800	**568,98**
9539M62 inch	2 7/16"	88	86	100	35	2800	**568,98**
9540	2 1/2"	100	86	100	35	3600	**719,63**
9541M65 inch	2 9/16"	100	86	100	35	3600	**719,63**
9542M67 inch	2 5/8"	100	86	102	38	3600	**719,63**
9543	2 11/16"	100	86	102	38	3600	**719,63**
9544M70 inch	2 3/4"	100	86	102	38	3600	**784,78**
9545	2 13/16"	105	86	108	40	4100	**902,63**
9546M73 inch	2 7/8"	105	86	108	41	4100	**980,29**
9547M75 inch	2 15/16"	105	86	108	41	4100	**1015,97**
9548M76 inch	3"	109	86	114	44	4400	**1021,67**
9549	3 1/16"	109	86	114	44	4400	**1021,67**
9550	3 1/8"	109	86	114	44	4400	**1021,67**

95L 5-spline

Cap cheie tubulara de impact 5 SPLINE, 6 laturi, lung





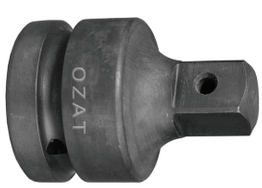
OZAT 2000 LTD.

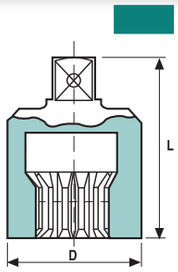
	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
9512M19L	19	48	60	160	9.5	2340	**665,52**
95M20L	20	48	60	160	10	2340	**665,52**
95M21L	21	48	60	160	11	2340	**665,52**
95M22L	22	48	60	160	11	2340	**665,52**
95M23L	23	48	60	160	13	2340	**665,52**
95M24L	24	49	60	160	13	2340	**665,52**
95M25L	25	49	60	160	13	2340	**665,52**
95M26L	26	51	60	160	13	2340	**665,52**
9517M27L	27	51	60	160	13	2340	**665,52**
95M28L	28	51	60	160	14	2340	**665,52**
95M29L	29	54	60	160	16.5	2340	**665,52**
9519M30L	30	54	60	160	16.5	2340	**665,52**
95M31L	31	60	60	160	17	2340	**665,52**
95M32L	32	60	60	160	17	2340	**665,52**
95M33L	33	60	60	160	17	2340	**665,52**
95M34L	34	60	60	160	19	2340	**665,52**
9522M35L	35	60	60	160	19	2340	**665,52**
95M36L	36	63	60	160	19	2500	**665,52**
95M37L	37	63	60	160	19	2500	**665,52**
9524M38L	38	63	60	160	22	2500	**665,52**
95M39L	39	67	60	160	22	2700	**665,52**
95M40L	40	67	60	160	22	2700	**671,29**
9526M41L	41	67	60	160	22	2700	**671,29**
95M42L	42	67	60	160	22	2700	**671,29**
9527M43L	43	67	60	160	25	2700	**735,25**
95M44L	44	73	60	160	25	3000	**735,25**
95M45L	45	73	60	160	25.5	3000	**735,25**
9529M46L	46	73	60	160	25.5	3000	**735,25**
95M47L	47	73	60	160	25.5	3000	**735,25**
95M48L	48	73	60	160	27	3000	**735,25**
9531M49L	49	73	60	160	27	3000	**735,25**
95M50L	50	82	60	160	27	3700	**784,48**
9532M51L	51	82	60	160	27	3700	**784,48**
95M52L	52	82	60	160	27	3700	**784,48**
9534M54L	54	82	60	160	30	3700	**799,66**
95M55L	55	82	60	160	30	3700	**799,66**
95M56L	56	88	86	160	32	4800	**954,75**
9536M57L	57	88	86	160	33	4800	**954,75**
95M58L	58	88	86	160	33	4800	**954,75**
9537M59L	59	88	86	160	33	4800	**954,75**
95M60L	60	88	86	160	35	4800	**954,75**
95M61L	61	88	86	160	35	4800	**982,80**
9539M62L	62	88	86	160	35	4800	**982,80**
9541M65L	65	100	86	160	35	6100	**1107,54**
9542M67L	67	100	86	160	38	6100	**1107,54**
9544M70L	70	100	86	160	38	6100	**1269,37**
9546M73L	73	105	86	160	41	6600	**1346,14**
9547M75L	75	105	86	160	41	6600	**1399,44**
9548M76L	76	109	86	162	44	7000	**1439,34**
95M77L	77	109	86	162	44	7000	**1439,34**
95M80L	80	115	86	162	44	7500	**1499,30**
9512M19L inch	3/4"	48	60	160	9.5	2340	**665,52**
9513L	13/16"	48	60	160	11	2340	**665,52**
9514L	7/8"	48	60	160	13	2340	**665,52**
9515L	15/16"	48	60	160	13	2340	**665,52**
9516L	1"	49	60	160	13	2340	**665,52**
9517M27L inch	1 1/16"	51	60	160	13	2340	**665,52**
9518L	1 1/8"	51	60	160	16.5	2340	**665,52**
9519M30L inch	1 3/16"	54	60	160	16.5	2340	**665,52**
9520L	1 1/4"	60	60	160	17	2340	**665,52**
9521L	1 5/16"	60	60	160	19	2340	**665,52**
9522M35L inch	1 3/8"	60	60	160	19	2340	**665,52**
9523L	1 7/16"	63	60	160	19	2500	**665,52**
9524M38L inch	1 1/2"	63	60	160	22	2500	**665,52**
9525L	1 9/16"	67	60	160	22	2700	**671,29**
9526M41L inch	1 5/8"	67	60	160	22	2700	**671,29**
9527M43L inch	1 11/16"	67	60	160	25	2700	**735,25**

	Dimensiune	D1	D2	L	t min	Greutate	
	MM/inch	mm	mm	mm	mm	gr	
9528L	1 3/4"	73	60	160	25.5	3000	**735,25**
9529M46L inch	1 13/16"	73	60	160	25.5	3000	**735,25**
9530L	1 7/8"	73	60	160	27	3000	**735,25**
9531M49L inch	1 15/16"	73	60	160	27	3000	**735,25**
9532M51L inch	2"	82	60	160	27	3700	**784,48**
9533L	2 1/16"	82	60	160	30	3700	**784,48**
9534M54L inch	2 1/8"	82	60	160	30	3700	**799,66**
9535L	2 3/16"	82	60	160	32	3700	**799,66**
9536M57L inch	2 1/4"	88	86	160	33	4800	**954,75**
9537M59L inch	2 5/16"	88	86	160	33	4800	**954,75**
9538L	2 3/8"	88	86	160	35	4800	**982,80**
9539M62L inch	2 7/16"	88	86	160	35	4800	**982,80**
9540L	2 1/2"	100	86	160	35	6100	**1107,54**
9541M65L inch	2 9/16"	100	86	160	35	6100	**1107,54**
9542M67L inch	2 5/8"	100	86	160	38	6100	**1107,54**
9543L	2 11/16"	100	86	160	38	6100	**1156,77**
9544M70L inch	2 3/4"	100	86	160	38	6100	**1269,37**
9545L	2 13/16"	105	86	160	40	6600	**1499,30**
9546M73L inch	2 7/8"	105	86	160	41	6600	**1346,14**
9547M75L inch	2 15/16"	105	86	160	41	6600	**1399,44**
9548M76L inch	3"	109	86	162	44	7000	**1439,34**
9549L	3 1/16"	109	86	162	44	7000	**1499,30**
9550L	3 1/8"	109	86	162	44	7000	**1499,30**

A95 5-spline

Adaptor de impact mama-tata 5 SPLINE



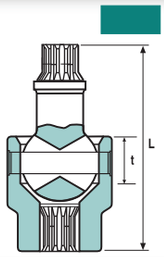


	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
A9516	5 Spline	1"	60	90	940	**999,54**
A9524	5 Spline	1 1/2"	60	100	1250	**1266,11**

U95 5-spline

Intermediar cardanic de impact 5 SPLINE

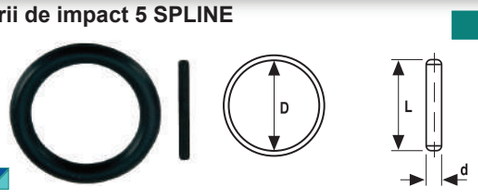




	Patrat		D	L	Greutate	
	interior	exterior	mm	mm	gr	
U9595	5 Spline	5 Spline	67	180	2300	**1865,82**

PR95 5-spline

Accesorii de impact 5 SPLINE

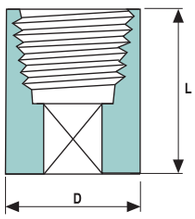


	Patrat	Tip	Q	d	L	D	
				mm	mm	mm	
P9560	5 Spline	pin	Ø 60	-	52	-	**4,66**
P9586	5 Spline	pin	Ø 86	-	75	-	**4,66**
R9560	5 Spline	inel	Ø 60	-	-	52	**6,66**
R9586	5 Spline	inel	Ø 86	-	-	75	**6,66**

LU 5-spline

Cheie tubulara de impact 1/2" pentru demontat prezoane





	D	D	L	Greutate	
	mm	mm	mm	gr	
LU08M17	17	24	38	90	**106,75**
LU08M18	18.5	25	38	90	**106,75**
LU08M20	20	26	38	95	**106,75**
LU08M21	21.5	28.5	38	105	**111,71**
LU08M23	23	30	38	120	**111,71**
LU08M24	24.5	31	38	140	**114,97**
LU08M26	26	32	38	150	**114,97**

SET-25

Trusa capete tubulare de impact 1/2" pentru demontat prezoane 17-26 mm/4 piese



	Dimensiune	
SET 25	17-26 mm / 4 piese 17.0, 18.5, 21.5, 26.0	**460,83**

SET-26

Trusa capete tubulare de impact 1/2" pentru demontat prezoane 17-26 mm/7 piese

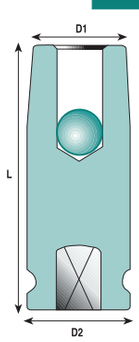


	Dimensiune	
SET 26	17-26 mm / 7 piese 17.0, 18.5, 20.0, 21.5, 23.0, 24.5, 26.0	**710,75**

ST06 3/8”

Cheie tubulara impact 3/8" pentru demontat si montat stifturi filetate



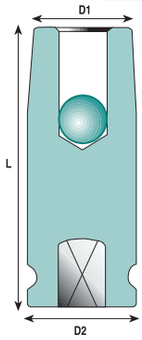


	Patrat	S	D1	D2	L	Greutate	
		mm	mm	mm	mm	gr	
ST06M05	3/8"	M5 x P0.5	12	19	50	70	**111,71**
ST06M06	3/8"	M6 x P1.0	12.5	19	50	70	**111,71**
ST06M08	3/8"	M8 x P1.25	14.5	19	50	70	**111,71**

ST08 1/2”

Cheie tubulara impact 1/2" pentru demontat si montat stifturi filetate



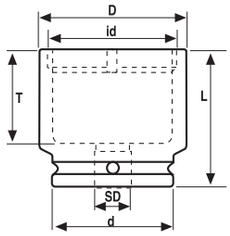


	Patrat	S	D1	D2	L	Greutate	
		mm	mm	mm	mm	gr	
ST08M08 X 1.25	1/2"	M8 x P1.25	15	25	75	135	**141,54**
ST08M10 X 1.25	1/2"	M10 x P1.25	18	25	75	135	**141,54**
ST08M12 X 1.25	1/2"	M12 x P1.25	21	25	75	140	**148,13**
ST08M12 X 1.75	1/2"	M12 x P1.75	19	25	75	140	**148,13**
ST08M14 X 1.50	1/2"	M14 x P1.5	23	25	75	150	**151,83**
ST08M14 X 2.00	1/2"	M14 x P2.0	22	25	75	150	**151,83**
ST08M16 X 2.00	1/2"	M16 x P2.0	27	30	75	240	**176,26**

KM

Cap cheie tubulara de impact pentru rulmenti





	Patrat	D	d	D	T	id	Greutate	
		mm	mm	mm	mm	mm	gr	
KM0	3/8"	22	19	57	44	18.1	90	**206,69**
KM1	3/8"	30	19	57	44	22.1	110	**206,69**
KM2	1/2"	32	30	82	60	25.2	290	**206,69**
KM3	1/2"	35	30	82	60	28.2	336	**221,86**
KM4	1/2"	38	30	82	60	32.2	389	**221,86**
KM5	1/2"	44	35	82	60	38.2	500	**239,56**
KM6	1/2"	52	35	82	60	45.2	654	**265,99**
KM7	1/2"	60	38	82	60	52.2	849	**280,79**
KM8	1/2"	67	38	82	60	58.3	1021	**295,45**
KM9	3/4"	73	44	90	62	65.4	1231	**428,85**
KM10	3/4"	78	44	90	62	70.4	1300	**443,43**
KM11	3/4"	82	54	90	62	75.4	1500	**458,31**
KM12	3/4"	88	54	90	62	80.4	1620	**473,12**
KM13	3/4"	96	60	90	62	85.4	2000	**488,00**
KM14	1"	103	86	110	74	92.5	3490	**1123,46**
KM15	1"	109	86	110	74	98.5	3680	**1123,46**
KM16	1"	115	86	110	74	105.6	3810	**1152,92**
KM17	1"	121	86	110	74	110.6	3970	**1376,05**
KM18	1"	130	86	110	74	120.3	4450	**1685,04**
KM19	1"	135	86	110	74	125.6	4540	**1965,91**
KM20	1"	145	86	110	74	130.6	5150	**2420,37**



CLESTI

Manere ergonomice
Datorita manerelor ergonomice si a suprafetelor de prindere special concepute, clestii Unior asigura un confort de lucru si o eficacitate maxima, cu un minim de efort

Protectia suprafetelor
Clestii sunt fabricati din otel de calitate excelenta cu o compozitie special optimizata. Mai multe modele au suplimentar protectie prin cromare

Inalta precizie
Multumita conceptiei perfecte si a superioritatii tehnologice, clestii Unior asigura o prindere de inalta precizie in toate cazurile, pentru folosire generala sau specializata.

UNIOR

O procedura speciala de producere a clestilor

1. Taiere: O placa de otel este decupata in forma dorita cu ajutorul unei masini de decupat. Forma este astfel conceputa incat sa nu existe material irosit, optimizand in acest fel folosirea unui material de calitate, indispensabil fabricarii sculelor de calitate



2. Forjeaza: Forma taiata este incalzita si pusa intr-o scula de forjare la cald, unde este formata de masina de forjat in produsul dorit : o pereche de falci. Dupa forjare, falcile sunt inca acoperite de material de rezerva. In procesul de forjare, materialul este incalzit si format astfel incat liniile interioare de forta sunt directionate intr-un fel care da cele mai bune proprietati de rezistenta si forta pentru incarcari dificile si dinamice mari



3. Debavurare: Eliminarea materialului suplimentar de pe partile forjate ale produsului este facuta folosind o scula dedicata, care decupeaza formele dorite. Pentru a efectua mai bine aceasta operatie, anumite produse sunt incalzite ca sa reduca deformarea mecanica a piesei, asigurand in acest fel clestelui o baza perfecta pentru prelucrarile mecanice ulterioare

4. Procesarea articulatiei: Gaura pivotului este facuta de o masina CNC dedicata, care frezeaza in acelasi timp suprafetele in contact din jurul articulatiei, asigurand clestelui o miscare de pivotare precisa si durabila



5. Brosare: Suprafata complexa a clestilor este fasonata cu o scula de fasonat dedicata, cu deplasare liniara. Aceasta etapa include profilarea in acelasi timp a razelor exterioare ale articulatiei si a dintilor falcilor ceea ce permite o priza perfecta pe obiecte de diferite forme.



6. Uzinarea muchiilor taietoare: Muchiile taietoare sunt realizate folosind o masina specilaizata CNC. Realizarea lor trebuie sa fie de cea mai mare precizie astfel incat sa se asigure potrivirea perfecta atunci cand falcile sunt asamblate

7. Nituire: Clestii sunt asamblati si uniti printr-un nit. In acest stadiu este esential sa se asigure ca articulatie este suficient de stransa, permitand in acelasi timp falcilor sa se miste usor dar fara jocuri.



8. Polizarea umeda: In acest stadiu, suprafetele clestilor sunt slefuite astfel incat sa se elimine toate diferentele de inaltime care pot apare ca o consecinta a tolerantelor de grosime la forjare sau in celelalte operatiuni mecanice, inclusiv nituirea

9. Fasonare: Suprafetele netratate inca sunt acum fasonate cu o masina cu banda abraziva, pentru obtinerea unei calitati a suprafetei superioare celei obtinute la forjare. Clestii au in acest moment forma finala, dar anumite suprafete inca rugoase trebuiesc slefuite.



Seturi de clesti	139
Clesti combinati	139
Clesti taietori	140
Clesti cu varf plat si rotund	142
Clesti de dezizolat si sertizat	144
Clesti pentru inele de siguranta	149
Clesti pentru tamplari	151
Clesti de perforat	152
Clesti de strangere	153
Clesti nituri pop	154



Flexibilitate
Complet adaptat lucrarilor speciale, nu necesita efort suplimentar



10. Calire si revenire: Tratamentul termic al clestilor este realizat prin calirea in ulei, urmata de o revenire. Acest tip de tratament termic garanteaza materialului structura cea mai buna posibila, dand astfel produsului finit proprietati excelente de duritate. Un tratament termic de calitate confera clestilor o durata lunga de viata

11. Sablare: In acest stadiu, suprafetele produsului sunt sablate ca sa se elimine atat rugozitatile restante cat si oxizii care apar in timpul tratamentului termic. Suprafetele sablate sunt in consecinta netede uniform, imbunatatind aspectul produselor. Anumite suprafete sunt retratate mai precis intr-un stadiu ulterior pentru a crea contraste

12. Tratarea prin inductie: Partile taietoare ale clestilor se trateaza suplimentar prin inductie - CIF - acest tratament asigurand pe zona taisului duritati foarte mari - aprox. 62 HRc - incat sa permita utilizatorului sa taie chiar si cele mai tari fire fara sa strice sau sa strambe muchiile taietoare.

13. Polizare fina: Anumite suprafete din capetele clestilor sunt polizate de o masina cu banda abraziva ca sa fie perfect lise, ceea ce are ca efect ameliorarea suplimentara a aspectului clestilor si usurarea curatarii acestora.

14. Cromare si lustruire: Clestii sunt galvanizati cu un strat subtire de nichel si crom pentru a le proteja contra oxidarii. Aceasta da produsului un aspect mai estetic, cu suprafete argintii stralucitoare. Suprafetele cromate dau de asemeni clestilor mai multa rezistenta si durabilitate

15. Marcaj cu laser: Folosind procedeul modern de marcare cu laser, clestii sunt inscriptionati cu semnele de identificare. Pentru anumite tipuri de clesti, aceste marcaje pot servi si pentru a ajuta utilizatorul sa aleaga anumiti parametri

16. Montarea manerelor izolate: Clestii sunt dotati cu manere de plastic pentru a asigura o priza ferma si ergonomica. Suprafetele de contact ale celor doua manere sunt tratate pentru a asigura utilizarea unei prinderi optime, indiferent de conditiile de lucru.

17. Lubrifiere si control: Suprafetele care sunt in contact la nivelul articulatiei sunt lubrifiate pentru a asigura clestilor o miscare usoara si durabila. In acest stadiu final, verificam de asemenea daca produsul are toate calitatile si caracteristicile vizuale necesare astfel incat clestii Unior sa raspunda cerintelor celor mai exigenti utilizatori.

Caracteristicile clestilor Unior

Doua linii



- material: compozitie speciala pentru calire revenire
- tratat complet
- partile taietoare tratate prin inductie
- cap polizat
- finisare: cromat in conformitate cu standardul EN12540
- manere bimaterial pentru conditii grele
- marcaj injectat UNIOR



- material: compozitie speciala pentru calire revenire
- tratat complet
- partile taietoare tratate prin inductie
- cap vopsit
- acoperire: fosfatare
- maner de plastic pentru conditii grele

401PB6

Set de clesti si surubelnite in cutie de plastic

- *dimensiunea cutiei : 244 x 207 x 44 mm*



UNIOR

621420	6	780	1G	1	312,20

461/1BI (160), 506/1BI (140),
605TBI (0.4x2.5x75, 0.5x3.0x 80),
615TBI (PH 0 x 60, PH 1 x 80),
981PBS5 (244 x 207 x 44)

402A

Set de clesti in cutie de carton



UNIOR

617818	3	1070	1G	1	243,18

406/1BI (180), 461/1BI (160),
445/1BI (240)

402B

Set de clesti in cutie de carton



UNIOR

617933	3	1030	1G	1	187,77

406/4G (180), 461/4G (160),
445/4G (240)

402C1

Set de clesti in cutie de carton



UNIOR

623200	3	1030	1G	1	233,25

406/4BI (180), 461/4BI (160),
506/1BI (160)

402C2

Set de clesti in cutie de carton



UNIOR

604880	4	870	1G	1	303,59

406/4BI (160), 461/4BI (160),
506/1BI (160) 478/1BI (160)

402C3

Set de clesti in cutie de carton



UNIOR

623201	3	870	1G	1	181,88

406/4G (180), 461/4G (160),
506/4G (160)

402C4

Set de clesti in cutie de carton



UNIOR

623202	4	870	1G	1	237,19

406/4G (160), 461/4G (160),
506/4G (160) 478/4G (160)

402C7

Set de clesti in cutie de carton



UNIOR

624375	3	1000	1G	1	309,58

406/1BI (180), 461/1BI (160),
447/1HPP (240)

402C8

Set de clesti in cutie de carton



UNIOR

624376	3	900	1G	1	243,37

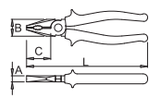
406/4G (180), 461/4G (160),
447/4PHPP (240)

405/4G

Cleste combinat

- *material: compozitie speciala pentru calire-revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5746*





UNIOR

	L	B	C	A				
608668	160	24	35	9.5	224	4B	10	50,01
608669	180	27	38	10	273	4B	10	54,14
608670	200	29	41	10.5	351	4B	10	59,06

capacitatea de taiere (10N=1kg)

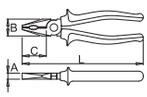
	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
608668	160	1,6		2,0	
608669	180	1,8		2,5	
608670	200	2,0		2,5	

405/1BI

Cleste combinat maner bimateial

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5746*





UNIOR

	L	B	C	A				
607867	160	24	35	9.5	224	4B	10	**69,17**
607868	180	27	38	10	273	4B	10	**74,72**
607869	200	29	41	10.5	351	4B	10	**80,31**

capacitatea de taiere (10N=1kg)

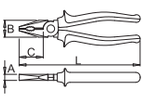
	L	max 1600 N/mm² ØT	max 650 N/mm² ØT
607867	160	1,6	2,0
607868	180	1,8	2,5
607869	200	2,0	2,5

406/1BI

Cleste combinat

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *in conformitate cu standardul ISO 5746*





UNIOR

	L	B	C	A				
607870	160	24	35	9.5	224	4B	10	**65,28**
607871	180	27	38	10	274	4B	10	**68,69**
607872	200	29	41	10.5	341	4B	10	**75,79**
608354	220	32	47	11	421	4B	10	**89,41**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ØT	max 650 N/mm² ØT
607870	160	1,6	2,0
607871	180	1,8	2,5
607872	200	2,0	2,5
608354	220	2,0	3,0

406/1BIST

Set de clesti combinati in display de carton



UNIOR

621854	6	2100	1F	1	**465,63**

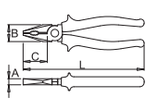
406/1BI (180)

406/4G

Cleste combinat

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5746*





UNIOR

	L	B	C	A				
608673	140	23	32	8	157	4B	10	**47,19**
608674	160	24	35	9.5	224	4B	10	**48,65**
608675	180	27	38	10	274	4B	10	**52,24**
608676	200	29	41	10.5	341	4B	10	**55,11**
608677	220	32	47	11	421	4B	10	**66,50**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ØT	max 650 N/mm² ØT
608673	140	1,6	2,0
608674	160	1,6	2,0
608675	180	1,8	2,5
608676	200	2,0	2,5
608677	220	2,0	3,0



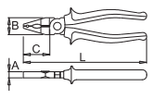


420/1BI

Cleste combinat cu gaura

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*





UNIOR

	L	B	C	A				
607873	180	24	45	11	241	4B	10	**97,53**

capacitatea de taiere (10N=1kg)

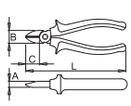
	L	max 1600 N/mm² ØT	max 650 N/mm² ØT
607873	180	1,8	2,5

461/1BI

Cleste cu tais lateral

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5749*





UNIOR

	L	B	A	C				
607883	140	19	9.5	18	169	4B	10	**67,96**
607884	160	22.5	10	22	214	4B	10	**70,88**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ØT	max 650 N/mm² ØT
607883	140	1,6	2,0
607884	160	1,6	2,5

461/1BIST

Set de clesti cu tais lateral in display de carton



621855	6	1700	1F	1	**478,62**

461/1BI (160)

461/4G

Cleste cu tais lateral

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform cu standardul DIN 12476*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5749*



	L	B	A	C				
608697	140	19	9.5	18	169	4B	10	**51,76**
608698	160	22.5	10	22	214	4B	10	**56,04**

capacitatea de taiere (10N=1kg)

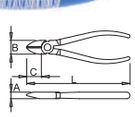
	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
608697	140	1,6		2,0	
608698	160	1,6		2,5	

461/4P

Cleste cu tais lateral

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie, cap vopsit*
- *acoperire: fosfatare conform cu standardul DIN 12476*
- *manere de plastic*
- *in conformitate cu standardul ISO 5749*





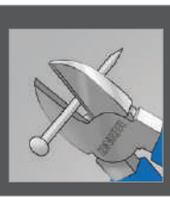
	L	B	A	C				
612327	125	19	9.5	18	115	4B	10	**48,84**

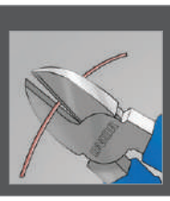
capacitatea de taiere (10N=1kg)

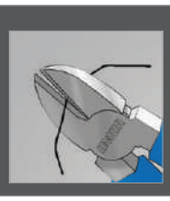
	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
612327	125	1,6		2,0	

CARACTERISTICI

461/1BI, 461/4G





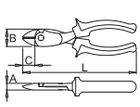


466/1BI

Cleste cu tais lateral pentru conditii grele

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5749*





	L	B	A	C				
617686	160	23.5	10	20.5	214	4B	10	**83,47**
608850	180	28	11	20	313	4B	10	**99,14**
608837	200	27	11	21	344	4B	10	**113,93**

capacitatea de taiere (10N=1kg)

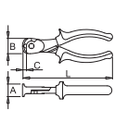
	L	max 2150 N/mm²	ØT	max 650 N/mm²	ØT
617686	160	1,6		2,5	
608850	180	1,8		3,0	
608837	200	2,0		3,5	

455/1BI

Cleste cu tais fata

- *material: Ck 60*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5748*





	L	B	A	C				
609192	160	27	22	7	254	4B	10	**91,11**

capacitatea de taiere (10N=1kg)

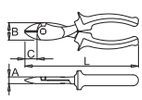
	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
609192	160	1,6		2,5	

466/4G

Cleste cu tais lateral pentru conditii grele

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5749*





	L	B	A	C				
617687	160	23.5	10	20.5	214	4B	10	**76,81**
608700	180	28	11	20	313	4B	10	**76,37**
609190	200	27	11	21	344	4B	10	**89,99**

capacitatea de taiere (10N=1kg)

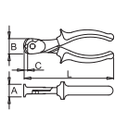
	L	max 2150 N/mm²	ØT	max 650 N/mm²	ØT
617687	160	1,6		2,5	
608700	180	1,8		3,0	
609190	200	2,0		3,5	

455/4G

Cleste cu tais fata

- *material: Ck 60*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform cu standardul DIN 12476*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5748*





	L	B	A	C				
608694	160	27	22	7	254	4B	10	**72,14**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
608694	160	1,6		2,5	

467SHARK/4DP

Cleste cu tais lateral PowerShark

Caracteristici si avantaje:
- *material: otel cu continut ridicat de carbon*
- *forjat*
- *tratat complet 47 HRc*
- *falcile de taiere sunt tartate in intregime prin inductie 64 HRc*
- *acoperire anticoroziva (brunare)*
- *lubrifiere pentru a proteja suprafata impotriva ruginii*
- *manerele ergonomice, anti-alunecare din plastic cu dublustrat*

Pentru taiere precisa:
- *sarma moale (pana la 6 mm)*
- *sarma dura (pana la 3,5 mm)*
- *coarda pian (pana la 3,0 mm)*
- *suruburi, cuie, nituri etc. pana la o grosime de 4 mm*



UNIOR

	L	B	C	A				
626490	250	30	24	12	241	4B	1	**140,10**

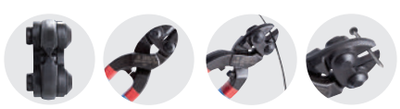
469SHARK/4DP

Cleste cu tais lateral BoltShark

Caracteristici și avantaje:
- *material: otel cu continut ridicat de carbon*
- *forjat*
- *tratat complet 47 HRc*
- *falcile de taiere sunt tartate in intregime prin inductie 64 HRc*
- *acoperire anticoroziva (brunare)*
- *lubrifiere pentru a proteja suprafata impotriva ruginii*
- *mânerele ergonomice, anti-alunecare din plastic cu dublustrat*

Pentru taiere precisa:
- *sarma moale (pana la 6 mm)*
- *sarma dura (pana la 4,0 mm)*
- *coarda pian (pana la 3,6 mm)*
- *suruburi, cuie, nituri etc. pana la o grosime de 5 mm*





UNIOR

	L	B	C	A				
626500	250	34,8	16,5	19,5	241	4B	1	**158,68**

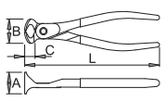


457/4AP

Cleste cu tais fata

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform cu standardul DIN 12476*
- *manere de plastic*
- *in conformitate cu standardul ISO 5748*





UNIOR

	L	B	A	C				
618648	180	31.5	28	12.5	244	4B	10	**111,49**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
618648	180	1,6		2,5	

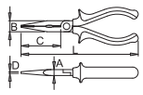


506/1BI

Cleste cu varfuri semirotunde si tais lateral

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*





UNIOR

	L	B	D	A	C				
607874	140	15	2	8	39	115	4B	10	**66,89**
607875	160	16	2.5	9	49	137	4B	10	**71,80**

capacitatea de taiere (10N=1kg)

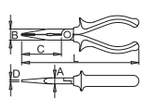
	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
607874	140	1,6		2,0	
607875	160	1,6		2,0	

506/4G

Cleste cu varfuri semirotunde si tais lateral

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*





UNIOR

	L	B	D	A	C				
608712	140	15	2	8	39	115	4B	10	**45,48**
608713	160	16	2.5	9	49	137	4B	10	**51,66**

capacitatea de taiere (10N=1kg)

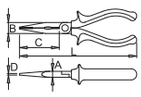
	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
608712	140	1,6		2,0	
608713	160	1,6		2,0	

508/1BI

Cleste cu varfuri semirotunde si tais lateral

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*





UNIOR

	L	B	D	A	C				
607876	170	17	2.5	9	61	156	4B	10	**81,38**
607877	200	17	2.5	9	77	191	4B	10	**84,25**

capacitatea de taiere (10N=1kg)

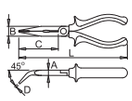
	L	max 1600 N/mm²	Ø	max 650 N/mm²	Ø
607876	170	1,6		2,0	
607877	200	1,8		2,5	

512/1BI

Cleste cu varfuri semirotunde indoite si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *varfuri-semirotunde indoite la 45 de grade*
- *varfurile lungi si indoite asigura prinderea sigura si precisa a suruburilor si piulitelor.*
- *falcile puternice asigura o strangere buna*





UNIOR

	L	B	D	A	C				
607966	170	17	2.5	9	61	152	4B	10	**90,29**
607967	200	17	2.5	9	77	204	4B	10	**94,27**

capacitatea de taiere (10N=1kg)

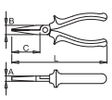
	L	max 1600 N/mm²	Ø	max 650 N/mm²	Ø
607966	170	1,6		2,0	
607967	200	1,8		2,5	

472/1BI

Cleste cu varfuri late

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*





UNIOR

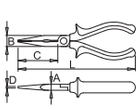
	L	B	C	A				
607878	140	15	39	8	120	4B	10	**61,54**
607879	160	16	49	9	146	4B	10	**66,64**

508/4G

Cleste cu varfuri semirotunde si tais lateral

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*





UNIOR

	L	B	D	A	C				
608710	170	17	2.5	9	61	156	4B	10	**59,83**
608711	200	17	2.5	9	77	191	4B	10	**63,29**

capacitatea de taiere (10N=1kg)

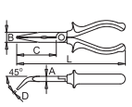
	L	max 1600 N/mm²	Ø	max 650 N/mm²	Ø
608710	170	1,6		2,0	
608711	200	1,8		2,5	

512/4G

Cleste cu varfuri semirotunde indoite si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *partea de prindere dintata*
- *varfuri-semirotunde indoite la 45 de grade*
- *maner de plastic pentru conditii grele*
- *varfurile lungi si indoite asigura prinderea sigura si precisa a suruburilor si piulitelor.*
- *falcile puternice asigura o strangere buna*





UNIOR

	L	B	D	A	C				
608720	170	17	2.5	9	61	152	4B	10	**70,10**
608721	200	17	2.5	9	77	204	4B	10	**73,79**

capacitatea de taiere (10N=1kg)

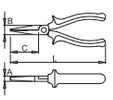
	L	max 1600 N/mm²	Ø	max 650 N/mm²	Ø
608720	170	1,6		2,0	
608721	200	1,8		2,5	

472/4G

Cleste cu varfuri late

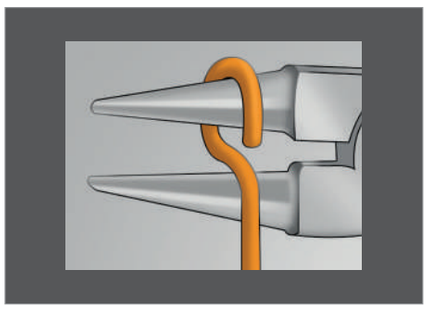
- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *partea de prindere dintata*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5745*

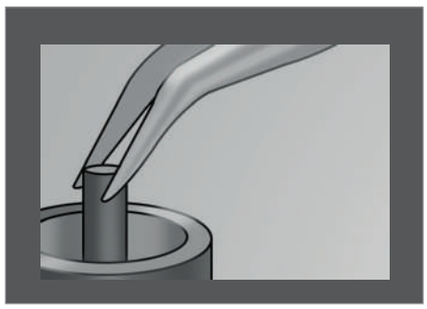




UNIOR

	L	B	C	A				
608704	140	15	39	8	120	4B	10	**43,00**
608705	160	16	49	9	146	4B	10	**46,94**



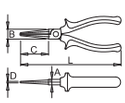


476/1BI

Cleste cu varfuri rotunde

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *posibilitati mici de deteriorare a sarmei*
- *varfurile lungi asigura prinderea sarmei in locurile cele mai dificile*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5745*





UNIOR

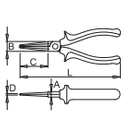
	L	B	A	C	D				
607880	140	15	9	39	2	116	4B	10	**62,70**
607881	160	16	10	49	2.5	126	4B	10	**67,76**

476/4G

Cleste cu varfuri rotunde

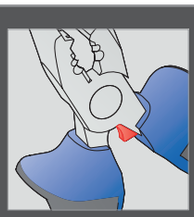
- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *posibilitati mici de deteriorare a sarmei*
- *varfurile lungi asigura prinderea sarmei in locurile cele mai dificile*
- *cap vopsit*
- *finisare: fosfatare conform standardului DIN 12476*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5745*





UNIOR

	L	B	A	C	D				
608708	140	15	9	39	2	116	4B	10	**43,34**
608709	160	16	10	49	2.5	126	4B	10	**47,09**



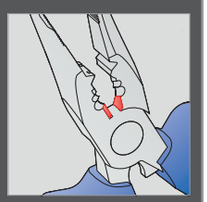
Sertizare cabluri terminale pana la Ø 4.0 mm.



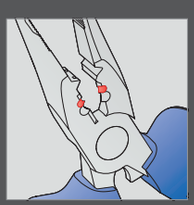
Clestele poate fi folosit pentru sertizarea papucilor izolati.



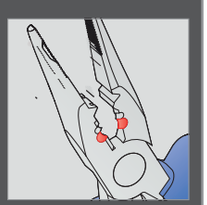
Partea inferioara a falcii este proiectata pentru blocarea obiectelor cu suprafata precisa si sensibila.



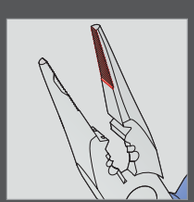
Taiere sarma de Ø 2.2 mm la Ø 4.0 mm.



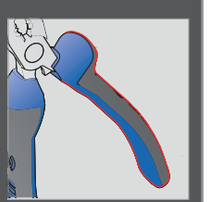
Dezizolarea cablurilor izolate de Ø 2.2 mm la Ø 3.0 mm.



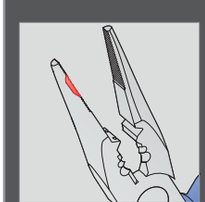
Dezizoleaza cabluri cu diametrul intre 3.5 mm si 4.0 mm



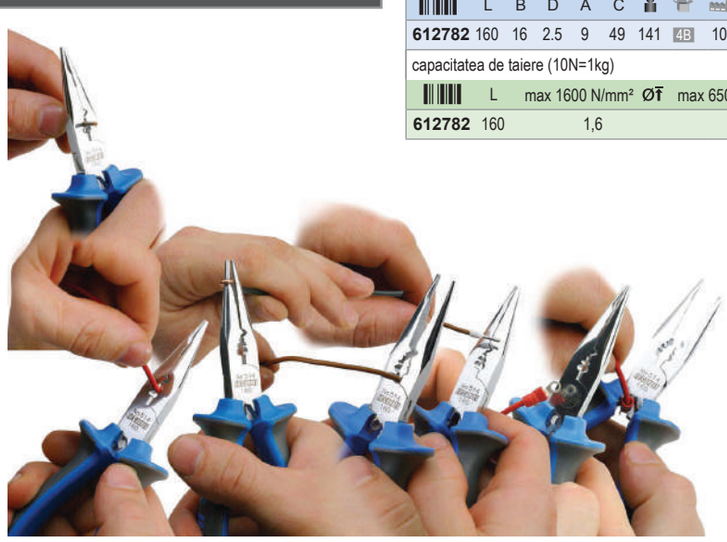
Falca cu mai multi dinti previne alunecarea si permite o mai buna prindere a cablurilor, sarmelor, etc.



Manere bimaterial pentru conditii grele



Rularea sarmelor tari si indoirea inelelor pana la diametrul 3.5 mm. Inelele pot fi indoite pe stanga sau pe dreapta, datorita dintilor corespunzatori de pe ambele parti ale falcilor.



514/1BI

Cleste pentru electrician multifunctionali

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*

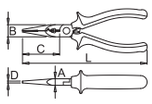
Avantaje:

- *7 functii diferite*
- *falca multi-dintata*
- *maner cu forma ergonomica*
- *strangere super puternica*
- *strangere ferma-designul si forma manerelor dau mainii mai multa forta in timpul strangerii , asigurand o stabilitate mai mare si un transfer sigur al fortei.*
- *durabilitate inalta*
- *falca dintata previne alunecarea si asigura o mai buna strangere a cablului sau sarmei.*

Utilizare

- *sarma de bobinaj tare si inelele de sarma pana la Ø 3.5 mm.Inelele pot fi indoite spre dreapta si spre stanga pana cand scula ajunge cu dintele corespunzator in ambele parti.*
- *partea inferioara a falcii este proiectata pentru blocarea obiectelor cu suprafata precisa si sensibila.*
- *clestii pot fi folositi pentru sertizarea terminalelor izolate*
- *dezizolarea cablurilor izolate de Ø 2.2 mm la Ø 3.0 mm.*
- *dezizolarea cablurilor izolate de Ø 3,5 mm la Ø 4,0 mm.*
- *taiere sarma de Ø 2.2 mm la Ø 4.0 mm.*
- *sertizare cabluri terminale pana la Ø 4.0 mm.*





UNIOR

	L	B	D	A	C				
612782	160	16	2.5	9	49	141	4B	10	**83,82**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² Ø	max 650 N/mm² Ø
612782	160	1,6	2,0

462/1BI

Cleste multifunctional cu taiere in diagonala

- *material: compozitie speciala pentru calire revenire*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*

Avantaje:

- *cleste dezizolator cabluri simple de sectiune 1.5 mm² et 2.5 mm²*



UNIOR

	L	B	A	C				
624059	160	22,5	10	22	214	4B	10	**86,59**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ØT	max 650 N/mm² ØT
624059	160	1,6	2,5

478/1BI

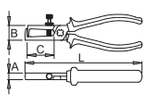
Cleste pentru dezizolat frontal

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*

Avantaje:

- *arc de redeschidere*
- *capacitatea de dezizolare de la 1, 6-10 mm²*





UNIOR

	L		B	A	C				
607882	160	0.6-10	18	9	40	178	4B	10	**73,75**



462/4G

Cleste multifunctional cu taiere in diagonala

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform cu standardul DIN 12476*
- *maner de plastic pentru conditii grele*

Avantaje:

- *cleste dezizolator cabluri simple de sectiune 1.5 mm² et 2.5 mm²*



UNIOR

	L	B	A	C				
624062	160	22,5	10	22	214	4B	10	**77,88**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ØT	max 650 N/mm² ØT
624062	160	1,6	2,5

478/4G

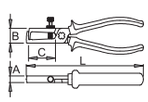
Cleste pentru dezizolat frontal

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare*
- *maner de plastic pentru conditii grele*

Avantaje:

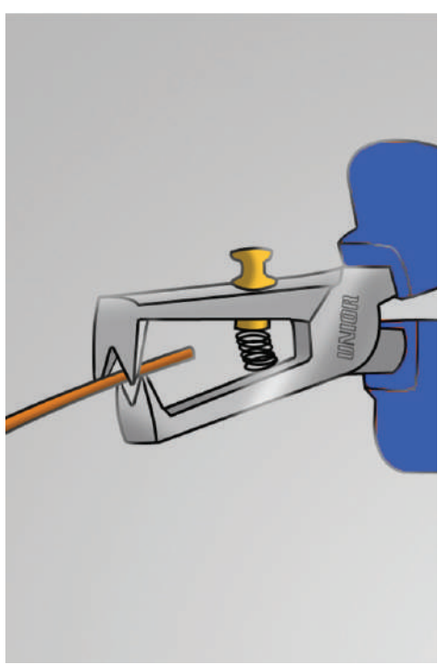
- *arc de redeschidere*
- *capacitatea de dezizolare de la 1, 6-10 mm²*





UNIOR

	L		B	A	C				
608701	160	0.6 - 10	18	9	40	178	4B	10	**58,86**



424/4P

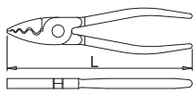
Cleste de sertizat

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*

Utilizare

- *pentru terminale neizolate (dim. 140 de la 0,5-2,5 mm , dim 180 0,25-16 mm)*





UNIOR





		L				
607949	0.5 - 2.5	140	144	4B	10	**112,18**
607950	0.25 - 16	180	258	4B	10	**172,11**

425/4A

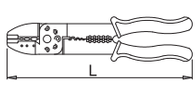
Cleste de sertizat

- *confectionat din tabla*
- *tratament termic complet*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*

Utilizare

- *pentru terminale izolate si inchise neizolate*





UNIOR





		L				
601136	1.5 - 6	240	320	1E	5	**92,62**

425/4B

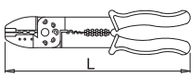
Cleste de sertizat

- *confectionat din tabla*
- *tratament termic complet*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*

Utilizare

- *pentru terminale deschise izolate si neizolate*





UNIOR

		L				
601137	1.5 - 6	240	320	1E	5	**89,26**

425/4AB

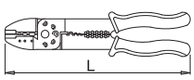
Cleste de sertizat

- *confectionat din tabla*
- *tratament termic complet*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*

Utilizare

- *pentru terminale neizolate standard si terminale inchise*





UNIOR

		L				
605806	1.5 - 6	240	320	1E	5	**99,14**

427/4AG

Cleste de sertizare - strangere

- *confectionat din tabla*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere bimaterial pentru conditii grele*

Avantaje:

- *falci din metal cu protectie electrica*
- *arc intarit pentru prelungirea perioadei de viata a clestelui*
- *profilul patrat al falcilor permite un contact mai bun decat la clestii cu profil obisnuit*

Utilizare

- *pentru terminale de dimensiuni 0,08 - 10 mm²/ AWG28 - 7*



UNIOR

621550	433	1G	1	**919,39**

CARACTERISTICI

427/4AG



Autoreglat automat la dimensiunea ceruta a firului



Cap de sertizare patrat



O geometrie de matrice de mare precizie da o forma de taiere definita clar

427/4CG

Cleste pentru dezizolat si sertizat

- *confectionat din tabla*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere bimaterial pentru conditii grele*

Avantaje:

- *falcile special proiectate prind cablul ferm in timpul procesului de dezvelire*

Utilizare

- *cu ajutorul butonului pivotant se poate face adaptarea la fire mai subtiri de 30AWG (0.05 mm) sau mai groase de 8AWG (1.5 la 6.0 mm)*
- *pentu terminale neizolate 10 - 22 AWG (1.5-6.0 mm)*
- *pentru terminale izolate 10-22AWG (1.56.0 mm)*
- *pentru terminale auto ingnifuge de la 7 la 8 mm*



UNIOR

621552	378	1G	1	**102,54**



428/4

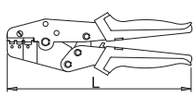
Cleste cu parghie pentru sertizat

- *confectionat din tabla*
- *falci forjate din otel special de scule, tratate*
- *articulatia asigura o presiune ridicata de compresie cu efort minim*
- *maner de plastic pentru conditii grele*
- *elemente de schimb pentru cap*
- *taiere si sertizare sarma, acoperire vopsit*

Utilizare

- *pentru terminale izolate (0.5-6 mmp)*





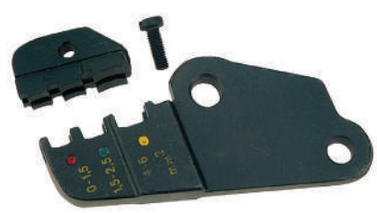
UNIOR

		L				
602327	0.5 - 6	240	575	1E	1	294,16

428.1/4

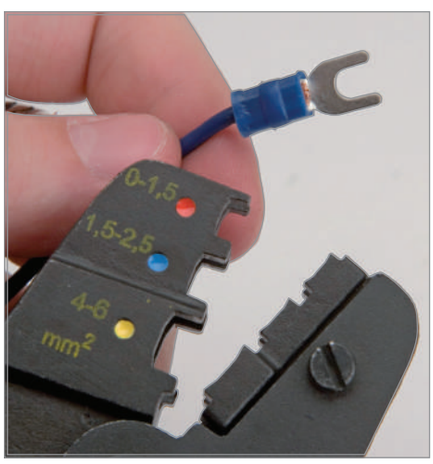
Falci de schimb pentru art. 428

- *cap de schimb*



UNIOR

602328	161	1E	1	59,93



427/4DG

Cleste de sertizat modular

- *confectionat din tabla*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere bimaterial pentru conditii grele*

Avantaje:

- *pozitionarea exacta se face datorita pozitionarii paralele a falcilor*

Utilizare

- *pentru fixarea prizelor Western cu 4-, 6- si 8- poli de tip RJ 10 (grosime 7.65 mm) tip RJ 11/12 (grosime 9.65 mm) si tip RJ 45 (grosime 11.68 mm)*
- *scula pentru taierea si sertizarea firelor de telefon neizolate*
- *cu un dispozitiv special pentru dezvelirea cablurilor rotunde*
- *cu cutter de lungime si cutit de dezizolare pentru cabluri tip panglica de la 6 la 12 mm grosime*





UNIOR

621553	401	1G	1	162,28

427/2FG

Cleste de sertizat

- *confectionat din tabla*
- *duritatea bacurilor 38-40 HRC*
- *foarte usor de folosit*

Avantaje:

- *sertizare hexagonala*
- *sectiunea transversala este formata din profile sferice rotative*
- *Bacuri rotaive in 6 pozitii cu dimensiunile 6,10,16,25,35,50 mm*
- *articulatia asigura o presiune ridicata de compresie cu efort minim*





UNIOR

621555	6 - 50	1350	1D	1	504,69

428/4AGPB

Set cleste cu parghie pentru sertizat cu falci de rezerva

- *confectionat din tabla*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere bimaterial pentru conditii grele*
- *dimensiunea cutiei : 307 x 260 x 55 mm*

Avantaje:

- *sistemul de sertizare cu clichet asigura precizia*
- *sistem de schimbare rapida a falcilor pentru 4 tipuri diferite de falci*

Utilizare

- *pentru terminale izolate AWG10-12/14-16/18-22 (4-6/1.5-2.5/0.5-1.0 mm)*
- *pentru terminale neizolate AWG14-6 (0.2-16 mm)*
- *pentru conectori coaxiali BNC/TNC RG-58, RG-59/62. conectori hexagonali 0.255 (6.48 mm), 0.213 (5.41 mm), 0.068 (1.73 mm²)*







UNIOR

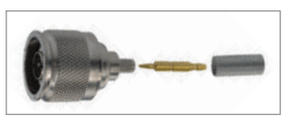
621557	1315	1G	1	566,42

428.4/4AG

Falci de schimb pentru conectori coaxiali si hexagonali, pentru 428/4AG



UNIOR



621958	55	1E	1	50,20

428.3/4AG

Falci de rezerva pentru terminale de capat pentru art. 428/4AG



UNIOR






621957	74	1E	1	50,20

428.1/4AG

Falci de schimb pentru terminale izolate pentru art. 428/4AG



UNIOR






621955	57	1E	1	50,20

428.2/4AG

Falci de schimb pentru terminale neizolate pentru art. 428/4AG



UNIOR





621956	55	1E	1	50,20

380

Clesti pentru dezizolat

- *material: poliamida*

Avantaje:

- *lungimea de dezizolare reglabila intre 5-12 mm*
- *accesibilitate usoara in cutit pentru max 2 mm*

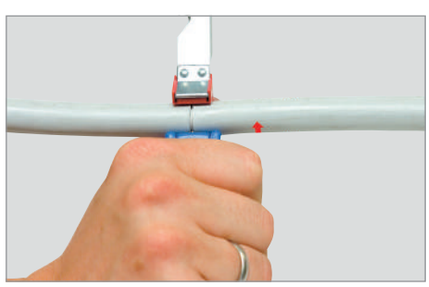
Utilizare

- *dezizolare completa automata pentru toate tipurile de conductori solizi de la 0, 2-6 mm²*



UNIOR

610925	0.2 - 6	117	1E	10	158,63



385H

Dispozitiv de dezizolare cu carlig de taiere

- *material: poliamida*

Avantaje:

- *fara deteriorarea interiorului conductorului la multiple ajustari a adancimii de taiere*
- *lama rotitoare se roteste automat la taieri circulare sau longitudinale*

Utilizare

- *acuratete, rapiditate si siguranta in dezizolarea cablurilor normale rotunde de la 4-28 mm²*



UNIOR

610930	4 - 28	91	1E	10	71,17

385.1H

Lama pentru art. 385H



UNIOR

623377	20	1E	10	26,27

385G

Dispozitiv de dezizolat cu cutit drept

- *material: poliamida*

Avantaje:

- *fara deteriorarea interiorului conductorului la multiple ajustari a adancimii de taiere*
- *lama rotitoare se roteste automat la taieri circulare sau longitudinale*

Utilizare

- *acuratete, rapiditate si siguranta in dezizolarea cablurilor normale rotunde de la 4-28 mm²*



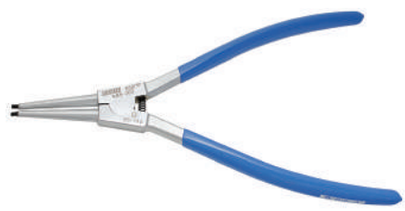
UNIOR

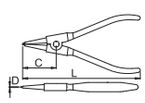
610931	4 - 28	92	1E	10	71,17

532/1P

Clesti inel de siguranta, varfuri drepte

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere de plastic*
- *in concordanta cu standardul DIN 5254 forma A*





UNIOR

	L		D	C				
616734	300	85 - 140	3.2	86	502	4B	5	**109,11**

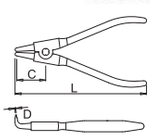


534/1P

Clesti inel de siguranta, varfuri indoite

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere de plastic*
- *in concordanta cu standardul DIN 5254 forma B*





UNIOR

			L	D	C				
616737	300	85-140	280	3.2	68	502	4B	5	**110,03**

532PLUS/1DP

Cleste inel de siguranta, exterior, varfuri drepte

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere duble de plastic*
- *in concordanta cu standardul DIN 5254 forma A*

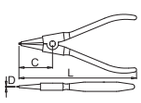
Avantaje:

- *rezistenta cu 30 % mai mare in comparatie cu clesti inel de siguranta obisnuiti*
- *cu varfuri inserate*
- *pentru diametre intre 10-100mm*

Utilizare

- *pentru montarea inelelor elastice pe ax*





UNIOR

	L		D	C				
621187	140	3 - 10	0.9	40	127	4B	10	**69,08**
621188	140	10 - 25	1.3	40	131	4B	10	**69,08**
621189	180	19 - 60	1.8	52	209	4B	10	**74,38**
621190	220	40 - 100	2.2	63	276	4B	5	**87,80**

534PLUS/1DP

Clesti inel de siguranta, varfuri indoite

- *material: compozitie speciala pentru calire revenice*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *in concordanta cu standardul DIN 5254 forma B*
- *manere duble de plastic*

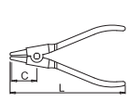
Avantaje:

- *rezistenta cu 30 % mai mare in comparatie cu clesti inel de siguranta obisnuiti*
- *cu varfuri inserate*
- *pentru diametre intre 10-100mm*

Utilizare

- *pentru montarea inelelor elastice pe ax*





UNIOR

			L	D	C				
621195	140	3 - 10	128	0.9	28	134	4B	10	**70,97**
621196	140	10 - 25	128	1.3	28	124	4B	10	**70,97**
621197	180	19 - 60	166	1.8	38	204	4B	10	**75,40**
621198	220	40 - 100	201	2.3	48	274	4B	5	**89,70**

536PLUS/1DP

Cleste inel de siguranta intern, varfuri drepte

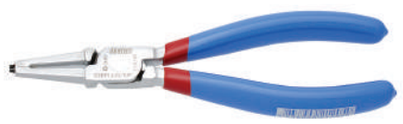
- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere duble de plastic*
- *in concordanta cu standardul DIN 5254 forma C*

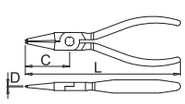
Avantaje:

- *rezistenta cu 30 % mai mare in comparatie cu clesti inel de siguranta obisnuiti*
- *cu varfuri inserate*
- *pentru diametre intre 8 si 100mm*

Utilizare

- *pentru montarea inelelor elastice pe gaurile tevilor*



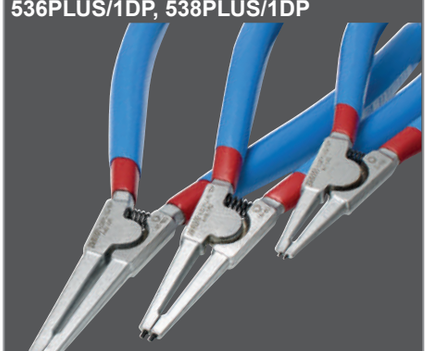


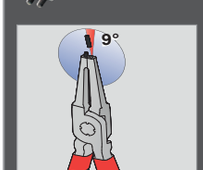
UNIOR

	L		D	C				
621203	140	8 - 13	0.9	40	111	4B	10	**64,75**
621204	140	12 - 25	1.3	40	115	4B	10	**64,75**
621205	180	19 - 60	1.8	52	192	4B	10	**66,64**
621206	220	40 - 100	2.2	63	251	4B	5	**81,29**

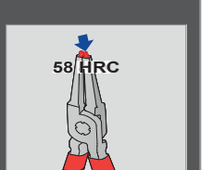
CARACTERISTICI

536PLUS/1DP, 538PLUS/1DP





Varfurile sunt introduse in falci la un unghi care previne inelul sa alunece din varf



Varfurile calite la 58HRC previn indoirea sau ruperea inelelor de siguranta in timpul scoterii / introducerii acestora.

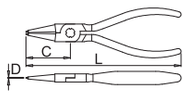


536/1P

Clesti inel de siguranta, varfuri drepte

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *in concordanta cu standardul DIN 5254 forma C*
- *manere de plastic*





UNIOR

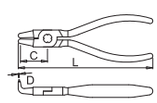
	L		D	C				
616740	300	85 - 140	3.2	86	491	4B	5	**104,98**

538/1P

Clesti inel de siguranta, varfuri indoite

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *in concordanta cu standardul DIN 5254 forma D*
- *manere de plastic*





UNIOR

			L	D	C				
616743	300	85 - 140	280	3.2	68	501	4B	5	**106,00**

539/1PCT

Set clesti inel de siguranta in husa



UNIOR

616736	4	2175	1T	1	**475,12**

532/1P (300), **534/1P** (300), **536/1P** (300), **538/1P** (300)

538PLUS/1DP

Cleste inel de siguranta, intern, varfuri indoite

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere duble de plastic*
- *in concordanta cu standardul DIN 5254 forma D*

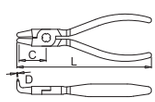
Avantaje:

- *rezistenta cu 30 % mai mare in comparatie cu clesti inel de siguranta obisnuiti*
- *pentru diametre intre 8 si 100mm*
- *cu varfuri inserate*

Utilizare

- *pentru montarea inelelor elastice pe gaurile tevilor*



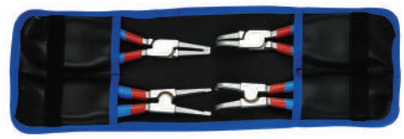


UNIOR

			L	D	C				
621211	140	8-13	128	0.9	28	114	4B	10	**67,47**
621212	140	12-25	128	1.3	28	114	4B	10	**67,47**
621213	180	19-60	166	1.8	38	194	4B	10	**75,16**
621214	220	40-100	202	2.3	48	244	4B	5	**82,50**

539PLUS/1DPCT

Set clesti inel de siguranta PLUS in husa



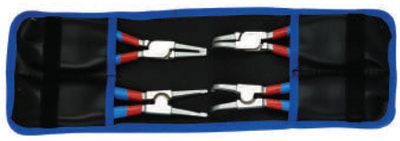
UNIOR

621623	3 - 10 - 140 / 4	560	1T	1	**307,49**

532PLUS/1DP (140x3-10), **534PLUS/1DP** (140x3-10), **536PLUS/1DP** (140x8-13), **538PLUS/1DP** (140x8-13)

539PLUS/1DPCT

Set clesti inel de siguranta PLUS in husa



UNIOR

621624	10 - 25 - 140 / 4	561	1T	1	**307,49**

532PLUS/1DP (140 x 10 - 25), **534PLUS/1DP** (140 x 10 - 25), **536PLUS/1DP** (140 x 12 - 25), **538PLUS/1DP** (140 x 12 - 25)

539PLUS/1DPCT

Set clesti inel de siguranta PLUS in husa



UNIOR

621625	19 - 60 - 180 / 4	915	1T	1	**328,40**

532PLUS/1DP (180 x 19 - 60), **534PLUS/1DP** (180 x 19 - 60), **536PLUS/1DP** (180 x 19 - 60), **538PLUS/1DP** (180 x 19 - 60)

539PLUS/1DPCT

Set clesti inel de siguranta PLUS in husa



UNIOR

621626	40 - 100 - 220 / 4	1160	1T	1	**380,16**

532PLUS/1DP (220 x 40 - 100), **534PLUS/1DP** (220 x 40 - 100), **536PLUS/1DP** (220 x 40 - 100), **538PLUS/1DP** (220 x 40 - 100)

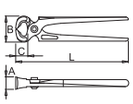


530/4

Cleste pentru scos cuie

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *conform cu standardul ISO 9243*





UNIOR

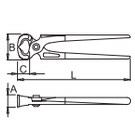
	L	B	A	C				
601341	160	46	22	16	242	4B	10	**38,96**
601342	180	50	23	21	309	4B	10	**41,54**
601343	200	54	25	24	427	4B	10	**43,63**
607860	225	54	25	24	419	4B	10	**50,93**
601344	250	58	26	27	557	4B	5	**63,68**

530/4P

Cleste pentru scos cuie

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *conform cu standardul ISO 9243*





UNIOR

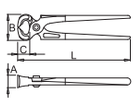
	L	B	A	C				
608722	160	46	22	16	242	4B	10	**42,66**
608723	180	50	23	21	309	4B	10	**45,53**
608724	200	54	25	24	427	4B	10	**48,11**
608725	225	54	25	24	419	4B	10	**57,84**
608726	250	58	26	27	557	4B	5	**70,15**

530/4PR

Cleste pentru scos cuie

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *conform cu standardul ISO 9243*





UNIOR

	L	B	A	C				
601336	160	46	22	16	242	4B	10	**44,80**
601337	180	50	23	21	309	4B	10	**47,82**
601338	200	54	25	24	427	4B	10	**50,49**
605155	225	54	25	24	419	4B	10	**60,71**
601339	250	58	26	27	557	4B	5	**73,70**

531/4

Cleste pentru plasa de sarma

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *Util pentru indoirea si sertizarea sarmelor*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *in concordanta cu standardul ISO 9242*

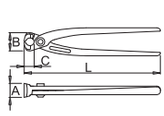
Avantaje:

- *forma precisa a imbinarii permite deschiderea automata a cheii intr-o pozitie orizontala, astfel forta este aplicata numai in timpul sertizarii sarmelor*

Utilizare

- *muchiile taietoare sunt tratate prin inductie la 61 HRc*





UNIOR

	L	B	A	C				
601372	190	26	22	15	214	4B	10	**43,63**
601373	224	30	23	17	333	4B	10	**53,17**
601374	250	36	25	18	424	4B	10	**59,25**
601375	280	36	25	18	455	4B	5	**68,10**



531/4P

Cleste pentru plasa de sarma

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *Util pentru indoirea si sertizarea sarmelor*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *in concordanta cu standardul ISO 9242*

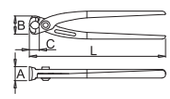
Avantaje:

- *forma precisa a imbinarii permite deschiderea automata a cheii intr-o pozitie orizontala, astfel forta este aplicata numai in timpul sertizarii sarmelor*

Utilizare

- *muchiile taietoare sunt tratate prin inductie la 61 HRc*





UNIOR

	L	B	A	C				
608727	190	26	22	15	214	4B	10	**48,21**
608728	224	30	23	17	333	4B	10	**56,23**
608729	250	36	25	18	424	4B	10	**64,94**
608730	280	36	25	18	455	4B	5	**74,86**

531/4PR

Cleste pentru plasa de sarma

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *util pentru indoirea si sertizarea sarmelor*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *in concordanta cu standardul ISO 9242*

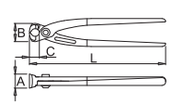
Avantaje:

- *forma precisa a imbinarii permite deschiderea automata a cheii intr-o pozitie orizontala, astfel forta este aplicata numai in timpul sertizarii sarmelor*

Utilizare

- *muchiile taietoare sunt tratate prin inductie la 61 HRc*





UNIOR

	L	B	A	C				
601386	224	30	23	17	333	4B	10	**58,96**
601387	250	36	25	18	424	4B	10	**68,20**
601388	280	36	25	18	455	4B	5	**78,66**

515/1BI

Cleste de perforat

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*

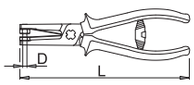
Avantaje:

- *arc de redeschidere*

Utilizare

- *utilizare:pentru gaurirea oricarui tip de hartie, cartele, materiale plastice sau combinatii ale acestora pena la 1, 5 mm grosime*





UNIOR

	L	D				
611975	160	3	181	4B	10	**129,93**
613083	160	4	181	4B	10	**129,93**

515.1

Preducele de schimb pentru art. 515



UNIOR

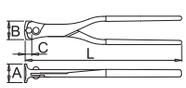
	D				
611976	4	7	1E	1	**23,30**
613084	3	7	1E	1	**25,68**

529/4P

Cleste plasa de sarma pentru conditii grele

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*





UNIOR

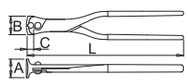
	L	B	A	C				
607494	280	33	33	19	476	4B	5	**194,04**

529/4PR

Cleste plasa de sarma pentru conditii grele

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*





UNIOR

	L	B	A	C				
609563	280	33	33	19	466	4B	5	**210,92**

528/4BP

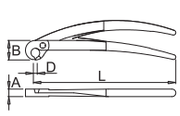
Cleste pentru ceramica

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*

Avantaje:

- *arc de redeschidere*







UNIOR

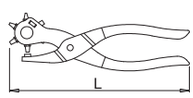
	L	B	A	DT				
612988	200	40	8.4	8	240	4B	10	**44,36**

558/5P

Cleste de perforat cu 6 pozitii

- *manerul confectionat din tabla*
- *preducelele confectionate din otel special de scule, tratate, ascutite*
- *acoperire:zincare*
- *manere de plastic*
- *dimensiuni preducele:2, 2.5, 3, 3.5, 4, 5*





UNIOR

	L				
601557	210	287	4B	10	**77,93**

527/4P

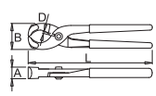
Cleste pentru ceramica

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*

Avantaje:

- *cu taiere sarma (max. 3 mm)*





UNIOR

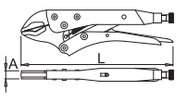
	L	B	A	D				
610148	200	42.7	19	3	395	4B	10	**67,03**

429/3

Cleste menghina

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *surub fosfatat*
- *falci simetrice*





UNIOR

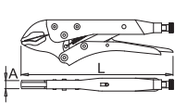
	L	A					
613101	175	10	30	362	1E	10	**82,89**
605206	250	12	35	596	1E	10	**92,18**
613102	300	14	40	1010	1E	5	**142,82**

430/3

Cleste menghina

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *surub fosfatat*





UNIOR

	L	A					
601551	175	10	30	365	1E	10	**82,99**
601552	250	12	35	596	1E	10	**93,11**
601553	300	14	40	1023	1E	5	**144,23**

432/3A

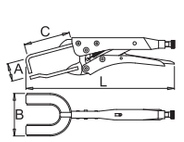
Cleste menghina pentru sudura

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *surub fosfatat*

Utilizare

- *pentru tevi indoite*





UNIOR

	L	A	B	C	DT				
601142	280	30	76	75	45	851	1E	5	**119,86**

432/3C

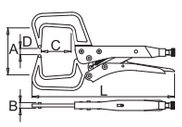
Cleste menghina pentru sudura

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *surub fosfatat*

Utilizare

- *pentru table si profile*





UNIOR

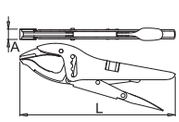
	L	A	B	C	DT				
601144	280	82	10	55	50	717	1E	5	**123,80**

434/3C

Cleste menghina

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *clesti menghina*





UNIOR





	L	A					
616723	250	16	80	615	1E	5	**143,16**





duza murdara



eliminare stropi de sudura din interiorul si exteriorul duzei



curatirea stropilor de sudura de pe duza de capat



Instalare si demontare duza



taiere sarma de sudura



scoatere sarma de sudura



montare bucsa de schimb



lovire

436/4P

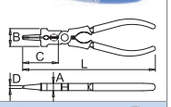
Cleste universal pentru sudura

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *arc de redeschidere*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*

Utilizare

- *cleste universal pentru sudura destinat intretinerii pistoletelor pentru sudarea electrica cu gaz protector (sudura MAG/MIG)*
- *eliminare stropi de sudura din interiorul si exteriorul duzei*
- *curatirea stropilor de sudura de pe duza de capat*
- *Instalare si demontare duza*
- *Instalare si montare varf*
- *taiere sarma de sudura*
- *scoatere sarma de sudura*
- *montare bucsa de schimb*
- *lovire*





UNIOR

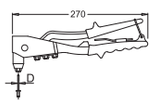
	L	B	D	A	C				
616493	180	25	3	10	59	212	1G	10	**139,42**
616494	210	34	3.5	11	80	306	1G	10	**145,94**

1300/6

Cleste pentru nituri pop

- *material: carcasa din aliaj de aluminiu, manerul de actionare din otel de compozitie speciala*
- *maner:forma ergonomica*
- *arc de redeschidere*
- *prevazuta cu capete pentru nituri pop pana la 4,8 mm sau 3/16"*
- *cu cheie pentru schimbarea pieselor de capat*





UNIOR

	D1	D2	D3	D4				
615454	2.4 (3/32")	3.2 (1/8")	4.0 (5/32")	4.8 (3/16")	567	1E	1	**121,56**



1301/6

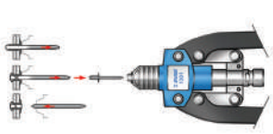
Set cleste nituri pop

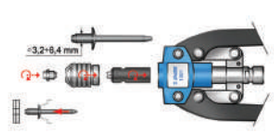
- *constructie usoara si durabila*
- *4 capete pentru nituri pop de 3,2 mm-6,4 mm (1/8"-1/4")*
- *4 capete pentru nituri pop filetate de la M4 la M10 (R5/32" - R3/8")*
- *componentele sunt montate intr-un suport SOS adaptabil pentru caruciorele Unior*
- *manere vopsite cu articulatie pentru lucrari in conditii grele*











UNIOR

619880	3500	1F	1	**500,22**

1300ST

Set de nituitoare manuale in displai de carton



UNIOR

623981	5	1F	1	**660,55**

1300/6 (2.4 (3/32") x 3.2 (1/8") x 4.0 (5/32") x 4.8 (3/16"))

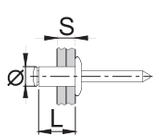
1301.1/4

Dorn pentru nituri oarbe pentru 1301/6

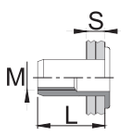


UNIOR

621437	M4	47	1E	1	**21,55**
621438	M5	49	1E	1	**21,55**
621439	M6	49	1E	1	**21,55**
621440	M8	71	1E	1	**27,19**
621441	M10	78	1E	1	**27,19**



Ø	S	L	Ø	S	L
3,2	0,5÷ 1,6	4,5	4,8	16,0÷19,8	25,5
	1,0÷ 3,2	6,0		19,1÷22,2	27,1
	1,5÷ 5,0	8,0		19,8÷26,2	32,0
	3,0÷ 6,5	9,5		20,0÷34,0	40,0
	5,0÷ 8,0	11,5		25,0÷39,0	45,0
	6,5÷ 9,5	13,5		30,0÷44,0	50,0
	9,5÷12,7	17,0		41,0÷46,0	55,0
	11,0÷14,3	18,5		46,0÷52,0	60,0
	12,5÷16,6	20,0		52,0÷60,0	70,0
	16,6÷21,0	24,0		60,0÷70,0	80,0
4,0	0,5÷ 1,6	4,9	5,0	0,5÷ 3,5	6,5
	0,5÷ 3,2	7,0		1,5÷ 4,5	8,0
	1,5÷ 4,8	8,5		3,0÷ 6,0	10,0
	3,0÷ 6,4	10,5		4,5÷ 7,5	12,0
	5,0÷ 7,9	12,0		6,0÷ 9,5	14,0
	6,5÷ 9,5	14,0		7,5÷11,5	16,0
	8,0÷11,0	15,5		9,5÷13,5	18,0
	9,5÷12,7	17,5		11,5÷15,5	20,0
	11,0÷14,3	19,0		13,5÷17,5	22,0
	12,5÷15,9	20,0		15,5÷20,5	25,0
	13,5÷17,4	22,5	6,0	0,5÷ 3,5	8,0
	16,0÷19,8	24,5		1,5÷ 5,5	10,0
4,8	0,5÷ 2,3	6,5		3,5÷ 7,5	12,0
	1,0÷ 3,2	7,5		5,5÷ 9,5	14,0
	1,5÷ 4,8	9,0		7,5÷11,0	16,0
	3,0÷ 6,4	11,0		9,5÷13,5	18,0
	5,0÷ 7,9	12,5		11,5÷15,5	20,0
	8,0÷11,1	16,5	6,4	3,0÷ 6,4	12,5
	11,1÷12,7	18,0		8,0÷12,7	19,5
	11,1÷13,5	19,0		12,0÷19,0	26,0
	13,5÷16,0	21,0		19,1÷25,4	31,5



M	S	L
4	0,5÷3,0	10,8
	3,0÷4,5	12,3
5	0,5÷3,0	12,0
	3,0÷5,5	15,0
6	0,5÷3,0	14,5
	3,0÷5,5	16,5
	5,5÷8,0	19,0
8	0,5÷3,0	16,0
	3,0÷5,5	18,5
	5,5÷8,0	21,5
10	0,8÷3,5	21,0
	3,5÷6,0	24,0

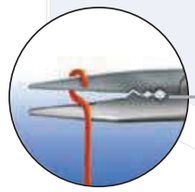
514/1BI

CLESTE MULTIFUNCTIONAL PENTRU ELECTRICIENI

Indispensabil pentru electricieni

7 Functii diferite

Capacitate de taiere (10 N = 1 kg)		
Dim.	max. 1600 N/mm² Ø T	max. 650 N/mm² Ø T
160	ø 1.6 mm	ø 2.0 mm



Indoirea firelor dure si **realizarea buclelor pana la** ø 3,5 mm - pe partea dreapta sau stanga! Acest cleste are canale corespunzatoare pe ambele parti ale falcilor pentru realizarea buclelor



Strangerea suprafetelor sensibile - o parte a falcilor este fina



Sertizarea terminalelor de capat.



Forta de aderenta extrema, datorita **formei manerelor** - in timpul lucrului, mana are mai mult sprijin, asigurand o transmisie mai sigura si o stabilitate mai mare.





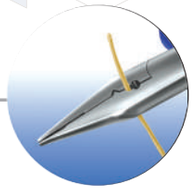
Sertizarea conectorilor de pana la ø 4.0 mm



Falcile zimtate asigura aderenta. Priza mai buna pe cabluri si fire



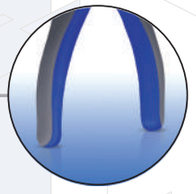
Dezizolarea cablurilor de la ø 2,2 mm la ø 3,0 mm



Dezizolarea cablurilor de la ø 3,5 mm la ø 4,0 mm



Taierea cablurilor de la ø 2.2 mm pana la ø 4.0 mm



Adaptabilitate maxima datorita formei ergonomice a manerelor bimaterial, realizate din material care reduce posibilitatea de alunecare a mainilor in timpul lucrului.

UNIOR



FOARFECI

Taiere in securitate completa

Conceputa pentru o taiere precisa si sigura a tablelor de otel, a armaturilor pentru beton armat, a firelor, cablurilor sau tevilor PVC, dar in acelasi timp si pentru folosirea in vii, gama variata de foarfeci Unior isi demonstreaza avantajele pentru o plaja larga de utilizari, atat profesionale, cat si casnice.

Otel de calitate superioara

Fabricate din oteluri carbon de calitate superioara, foarfecii Unior au falci forjate la cald, lame tratate prin inductie, manere plastizolate sau mansonate si o protectie eficace a suprafetelor.

Lame calite

Cu lame din otel calit corespunzator, puteti lucra fara efort si cu excelente rezultate.

UNIOR Finie www.finie.cz

Un procedeu special pentru fabricarea foarfecelor

FALCILE (STANGA SI FREAPTA)
1. Decupare: Bara de otel este decupata de o masina la forma ceruta; precizia decuparii asigura un surplus minim de materie prima



2. Forjare: Piesele forjate sunt realizate in matrite de forjare la cald. Aceasta permite forme variate si ergonomice ale produselor. Orientarea potrivita a fibrelor (aceeasi ca in barele de otel) este mentinuta folosind procesele corespunzatoare de forjare.



3. Debavurare: eliminarea bavurilor dupa forjare

4. Uzinare: Prin gaurire se poate obtine precizia ceruta a pozitionarii pentru fiecare falca in parte



5. Tratament termic: Tratamentul termic de calire si revenire si calire este folosit pentru imbunatatirea structurii otelului, ca sa furnizeze o mai buna rezisenta si duritate produsului si alte caracteristici necesare pentru a suporta solicitarile pe care le cere lucrul cu acest produs

6. Intarire prin inductie: Tratamentul de calire si revenire al falcilor asigura un grad inalt de duritate pentru partile functionale ale foarfecilor. Prin tratamentul prin inductie, putem obtine microstructura si duritatea optime, ceea ce asigura foarfecilor o durata lunga de folosire.



7. Polizare a lamelor: Polizarea este facuta cu masini CNC speciale, care sunt folosite pentru obtinerea unghiurilor corecte si optime pentru lame si - ca urmare - proprietati optime de taiere pentru foarfecile Unior

MANER
8. O cupiura de tabla, care foloseste ca baza, este facuta din tabla de calitate care asigura manerului rigiditatea si duritatea potrivite chiar si in conditii de sarcini maxime.



9. Indoirea manerului: Forma dorita a manerului este obtinuta prin indoirea acestuia folosind masini speciale cu o scula de inidoire care asigura legatura potrivita intre falci si manere.



10. Nichelare: Protectia prin nichelare da produsului un aspect profesional si asigura rezistenta la coroziune.



11. Asamblarea manerului: Manerele sunt asamblate impreuna printr-un procedeu de nituire care le confera o buna manevrabilitate.

12. Asamblarea falcilor: Lamele stanga si dreapta sunt asamblate impreuna cu un surub intr-o legatura flexibila si fluenta.



13. Ansamblu falca-maner: Ambele lame sunt prinse in manere printr-o legatura ferma care asigura functionarea ceruta chiar si in cele mai grele conditii.

14. Asamblare finala: Lucratori antrenati, indemanatici si meticulosi care executa asamblarea finala vor asambla produsul intr-un intreg care asigura functionalitatea si calitatea inalta a produsului.



Foarfeci de tabla - Plus	158
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563R-PLUS/7DP

Foarfeca universala de tabla

- *material: otel carbon de scule*
- *forjata*
- *lamele tratate prin inductie la min. 64 HRC.*
- *manere de plastic*

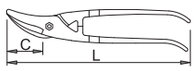
Avantaje:

- *durabilitate de 10 ori mai mare*
- *lame inserate, duritatea 64 HRC*
- *lame inserate extrem de puternice*
- *mai rapid si mai confortabil in exploatare*
- *diverse utilizari*
- *manere cu design ergonomic pentru o rapida si usoara utilizare*
- *lame inserate pentru o durata indelungata de exploatare*

Utilizare

- *model cu tais placat pentru taierea otelului*
- *pentru taierea de tabla sablata de 400 N/mm² grosime pana la 1,5 mm*





UNIOR

	L	C				
615039	280	51	582	4B	10	**261,71**

563L-PLUS/7DP

Foarfeca universala de tabla

- *material: otel carbon de scule*
- *forjata*
- *manere de plastic*
- *lamele tratate prin inductie la min. 64 HRC.*

Avantaje:

- *durabilitate de 10 ori mai mare*
- *lame inserate, duritatea 64 HRC*
- *lame inserate extrem de puternice*
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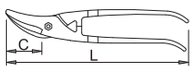


UNIOR

	L	C				
615040	280	51	577	4B	10	**261,71**

567R-PLUS/7DP

Foarfeca de tabla tip pelican

- *material: otel carbon de scule*
- *forjata*
- *lamele tratate prin inductie la min. 64 HRC.*
- *manere de plastic*
- *arc de redeschidere*

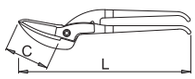
Avantaje:

- *durabilitate de 10 ori mai mare*
- *lame inserate, duritatea 64 HRC*
- *lame inserate extrem de puternice*
- *mai rapid si mai confortabil in exploatare*
- *diverse utilizari*
- *manere cu design ergonomic pentru o rapida si usoara utilizare*
- *lame inserate pentru o durata indelungata de exploatare*

Utilizare

- *model cu tais placat pentru taierea otelului*
- *pentru taierea de tabla sablata de 400 N/mm² grosime pana la 1,5 mm*





UNIOR

	L	C				
615036	290	56	677	4B	10	**269,40**

591R-PLUS/3DP

Foarfeca articulata de tabla tip pelican

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *arc de redeschidere*
- *lamele tratate prin inductie la min. 64 HRC.*
- *manere de plastic*

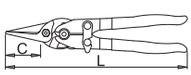
Avantaje:

- *durabilitate de 10 ori mai mare*
- *lame inserate, duritatea 64 HRC*
- *lame inserate extrem de puternice*
- *mai rapid si mai confortabil in exploatare*
- *diverse utilizari*
- *manere cu design ergonomic pentru o rapida si usoara utilizare*
- *lame inserate pentru o durata indelungata de exploatare*

Utilizare

- *model cu tais placat pentru taierea otelului*
- *pentru taierea de tabla sablata de 400 N/mm² grosime pana la 1,2 mm*





UNIOR

	L	C				
615043	260	37	532	4B	10	**257,09**

591L-PLUS/3DP

Foarfeca articulata de tabla tip pelican

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *arc de redeschidere*
- *lamele tratate prin inductie la min. 64 HRC.*
- *manere de plastic*

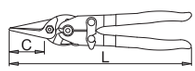
Avantaje:

- *durabilitate de 10 ori mai mare*
- *lame inserate, duritatea 64 HRC*
- *lame inserate extrem de puternice*
- *mai rapid si mai confortabil in exploatare*
- *diverse utilizari*
- *manere cu design ergonomic pentru o rapida si usoara utilizare*
- *lame inserate pentru o durata indelungata de exploatare*

Utilizare

- *model cu tais placat pentru taierea otelului*
- *pentru taierea de tabla sablata de 400 N/mm² grosime pana la 1,2 mm*





UNIOR

	L	C				
615044	260	37	532	4B	10	**257,09**

592R-PLUS/7DP

Foarfeca de tabla pelican

- *material: otel carbon de scule*
- *forjata*
- *lamele tratate prin inductie la min. 64 HRC.*
- *manere de plastic*

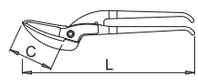
Avantaje:

- *durabilitate de 10 ori mai mare*
- *lame inserate, duritatea 64 HRC*
- *lame inserate extrem de puternice*
- *mai rapid si mai confortabil in exploatare*
- *diverse utilizari*
- *manere cu design ergonomic pentru o rapida si usoara utilizare*
- *lame inserate pentru o durata indelungata de exploatare*

Utilizare

- *model cu tais placat pentru taierea otelului*
- *pentru taierea de tabla sablata de 400 N/mm² grosime pana la 1,5 mm*





UNIOR

	L	C				
613196	350	90	880	4B	1	**421,02**

563R/7PR

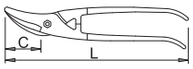
Foarfeca universala de tabla

- *material: otel carbon de scule*
- *tratat complet*
- *taisul tratat prin induscție la cca 62 HRC*
- *protectie anticoroziva*
- *manere de plastic*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,2 mm*





UNIOR

	L	C				
615037	280	51	567	4B	10	108,96

563L/7PR

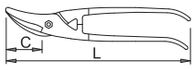
Foarfeca de tabla universala

- *material: otel carbon de scule*
- *tratat complet*
- *taisul tratat prin induscție la cca 62 HRC*
- *protectie anticoroziva*
- *manere de plastic*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,2 mm*





UNIOR

	L	C				
615038	280	51	567	4B	10	108,96

572R/7PR

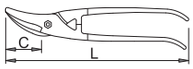
Foarfeca de fasonat tabla

- *material: otel carbon de scule*
- *tratat complet*
- *taisul tratat prin induscție la cca 62 HRC*
- *protectie anticoroziva*
- *manere de plastic*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,2 mm*





UNIOR

	L	C				
615041	280	50	446	4B	10	102,64

572L/7PR

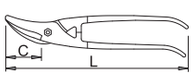
Foarfeca de fasonat tabla

- *material: otel carbon de scule*
- *tratat complet*
- *taisul tratat prin induscție la cca 62 HRC*
- *protectie anticoroziva*
- *manere de plastic*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,2 mm*





UNIOR

	L	C				
615042	280	50	502	4B	10	102,64

565R/7P

Foarfeca universala de tabla

- *material: otel carbon de scule*
- *tratat complet*
- *taisul tratat prin induscție la cca 62 HRC*
- *cap vopsit*
- *protectie anticoroziva*
- *manere de plastic*

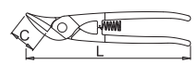
Avantaje:

- *arc de redeschidere*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,0 mm*





UNIOR

	L	C				
609332	250	70	420	4B	10	100,35

567R/7P

Foarfeca de tabla tip pelican

- *material: otel carbon de scule*
- *tratat complet*
- *taisul tratat prin induscție la cca 62 HRC*
- *cap vopsit*
- *protectie anticoroziva*
- *manere de plastic*

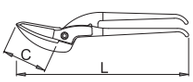
Avantaje:

- *arc de redeschidere*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,2 mm*





UNIOR

	L	C				
609335	290	56	672	4B	10	132,27



592R/7PR

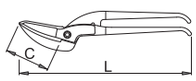
Foarfeca de tabla tip pelican

- *material: otel carbon de scule*
- *tratat complet*
- *taisul tratat prin indusctie la cca 62 HRC*
- *protectie anticoroziva*
- *manere de plastic*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,2 mm*





UNIOR

	L	C				
615035	350	90	880	4B	1	134,07

566R/7P

Foarfeca de tabla

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *tratat complet*
- *cap vopsit*
- *protectie anticoroziva*
- *manere de plastic*

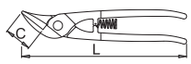
Avantaje:

- *arc de redeschidere*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,25 mm*





UNIOR

	L	C				
609333	250	40	467	4B	10	121,03

568R/7P

Foarfeca de tabla tip ideal

- *material: otel carbon de scule*
- *tratat complet*
- *taisul tratat prin indusctie la cca 62 HRC*
- *cap vopsit*
- *protectie anticoroziva*
- *manere de plastic*

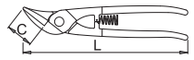
Avantaje:

- *arc de redeschidere*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,2 mm*





UNIOR

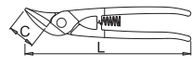
	L	C				
609336	250	35	532	4B	10	115,24

568L/7P

Foarfeca de tabla tip ideal

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca. 62 HRC*
- *tratat complet*
- *cap vopsit*
- *protectie anticoroziva*
- *manere de plastic*
- *arc de redeschidere*
- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,2 mm*





UNIOR

	L	C				
610945	250	35	532	4B	10	115,24

561R/3G

Foarfeca de tabla tip ideal

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *tratament termic complet*
- *lamele tratate prin inductie la max. 57 HRC, pentru art. 562 duritatea 52 HRC*
- *manere nichelate, manere din plastic rezistent la conditii grele*

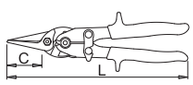
Avantaje:

- *arc de redeschidere*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,0 mm*





UNIOR

	L	C				
608771	260	47.5	487	4B	10	121,32

571L/3G

Foarfeca de tabla

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *lamele tratate prin inductie la max. 57 HRC, pentru art. 562 duritatea 52 HRC*
- *manere nichelate, manere din plastic rezistent la conditii grele*

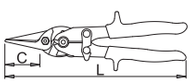
Avantaje:

- *arc de redeschidere*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,25 mm*





UNIOR

	L	C				
608774	260	40	497	4B	10	123,51

569R/7P

Foarfeca de tabla tip berlina

- *material: otel carbon de scule*
- *tratat complet*
- *taisul tratat prin indusctie la cca. 62 HRC*
- *cap vopsit*
- *protectie anticoroziva*
- *manere de plastic*

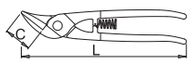
Avantaje:

- *arc de redeschidere*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,25 mm*





UNIOR

	L	C				
609334	250	55	452	4B	10	116,36

571R/3G

Foarfeca de tabla

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *lamele tratate prin inductie la max. 57 HRC, pentru art. 562 duritatea 52 HRC*
- *manere nichelate, manere din plastic rezistent la conditii grele*

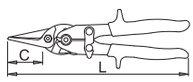
Avantaje:

- *arc de redeschidere*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,25 mm*





UNIOR

	L	C				
608773	260	40	497	4B	10	123,51

591R/3G

Foarfeca de tabla tip pelican

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *lamele tratate prin inductie la max. 57 HRC, pentru art. 562 duritatea 52 HRC*
- *manere nichelate, manere din plastic rezistent la conditii grele*

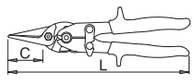
Avantaje:

- *arc de redeschidere*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,25 mm*





UNIOR

	L	C				
608775	260	37	547	4B	1	129,78

591L/3G

Foarfeca de tabla tip pelican

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *lamele tratate prin inductie la max. 57 HRC, pentru art. 562 duritatea 52 HRC*
- *manere nichelate, manere din plastic rezistent la conditii grele*

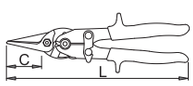
Avantaje:

- *arc de redeschidere*

Utilizare

- *pentru taierea de tabla de 400 N/mm² grosime pana la 1,25 mm*





UNIOR

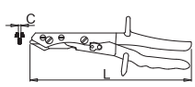
	L	C				
608776	260	37	547	4B	1	129,78

562/3P

Foarfeca de tabla prin stantare

- *manere din tabla*
- *cutit central zimtat*
- *protectie anti-alunecare pe maner*
- *blocare pentru prevenirea deschiderii accidentale*
- *arc de armare pentru revenire*
- *finisare: nichelare*
- *lama tratata prin inductie la cca. 52 HRC*





UNIOR

	L	B				
608772	250	3.3	462	4B	1	158,49

562.1/9

Falca de schimb pentru art. 562



UNIOR

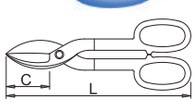
	L					
601569	250	23		1E	1	43,05

573/7P

Foarfeca de tabla dreapta

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca. 62 HRC*
- *manere de plastic*





UNIOR

	L	C				
615158	175	40	265	4B	10	59,69
615159	200	40	318	4B	10	62,36
615160	250	51	497	4B	5	70,24
615161	300	70	627	4B	5	95,49
615162	350	76	802	4B	5	120,69

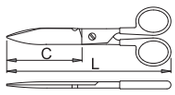


582/3P

Foarfeca de electrician

- *material: otel carbon de scule*
- *forjata*
- *partile taietoare tratate prin inductie*
- *acoperire nichelare*
- *manere de plastic*





UNIOR

	L	C				
601127	150	52	81	4B	10	**76,91**

583/6

Foarfeca pentru PVC

- *material cutit-otel inox molibden, manere-aliaj de aluminiu*

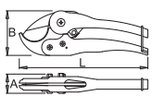
Avantaje:

- *clichet de actionare la taiere*
- *se asigura un unghi corect de taiere*

Utilizare

- *destinat pentru taierea tevilor din PVC (dim. 195 pana la 1" si dim. 210 pana la 1,5" grosime)*





UNIOR

	L					
605418	195	1	295	1E	10	**237,48**
609405	210	1.5	385	1E	5	**293,86**

583.1/7

Cutite de schimb pentru art. 583



UNIOR

		L				
605419	1"	195	64	1E	1	**128,23**
609406	1.5"	215	67	1E	1	**151,04**

542.1/5

Arc de schimb pentru 542



UNIOR

603870	13	1E	1	**9,97**

580/1BI

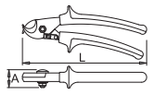
Foarfeca pentru cabluri

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *finisare:cromat in conformitate cu standardul EN12540*
- *cap polizat*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*

Important

- *pentru taierea cablurilor fara inima de otel*





UNIOR

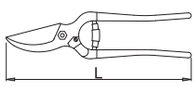
	L	A	ØT				
609238	170	22	10	339	4B	1	**141,95**
609239	230	22	17	444	4B	1	**162,04**

542/4PR

Foarfeca de cultura

- *material: otel carbon de scule*
- *forjata*
- *partile taietoare tratate prin inductie*
- *acoperire: fosfatare*
- *manere de plastic*





UNIOR

	L				
601578	220	310	4B	10	**77,20**

550/3PR

Foarfeca de gradina

- *mateial: lama din otel aliat*
- *falca glisanta din aluminiu*
- *partea taietoare tratata la min.50 HRC*
- *lama placata cu teflon*
- *acoperire nichelare*
- *manere de plastic*

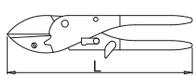
Avantaje:

- *blocare pentru prevenirea deschiderii accidentale*
- *maner anti-alunecare*

Utilizare

- *folosita pentru taieri de gradina*





UNIOR

	L				
601590	200	287	4B	10	**93,40**

550.1/9

Falca pentru art. 550

- *cutit; falca; surub; bucsa*



UNIOR

601585	50	1E	1	**48,60**

550.3/9

Lama de schimb pentru 550

- *arc laminat*



UNIOR

601591	17	1E	1	**5,25**

555/6

Foarfeca pentru pomi

- *material: lama din otel aliat*
- *falca de aluminiu, manere din otel*
- *falci tratate la 35 HRC*
- *lama tratata prin inductie la 50 HRC, ascutite slefuite, placata cu teflon*
- *manere vopsite cu articulatie pentru lucrari in conditii grele*

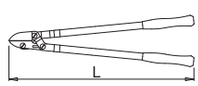
Avantaje:

- *capacitatea de taiere R 40 mm*
- *articulatie performanta*

Utilizare

- *pentru ramuri de arbori*





UNIOR

	L				
603522	750	1895	1C	1	**327,23**

555.1/9

Elemente de schimb pentru art. 555



UNIOR

605214	225	1E	1	**70,44**

555.2/9

Falca de schimb pentru art. 555



UNIOR

605236	55	1E	1	**64,94**



Un procedeu special pentru fabricarea clestilor de buloane

FALCI

1. Decupare: Bara de otel este decupata de o masina la forma ceruta; precizia decuparii asigura un surplus minim de materie prima



2. Forjare: Piesele forjate sunt facute folosind turnarea la cald. Aceasta permite forme variate si ergonomice ale produselor. Orientarea potrivita a fibrelor (aceeasi ca in barele de otel) este mentinuta folosind procesele corespunzatoare de forjare.



3. Debavurare: eliminarea bavurilor dupa forjare

4. Tratament termic (calire si revenire): Tratamentul termic de durizare si calire este folosit pentru imbunatatirea structurii otelului, ca sa furnizeze o mai buna rezisenta si duritate produsului si alte caracteristici necesare pentru a depasi tensiunile pe care le cere lucrul cu acest produs



ARTICULATII

5. Piesa forjata: Forjata la cald



6. Operare pe masini CNC: Intreaga productie a falcilor este facuta pe masini CNC. Dispozitivele de prindere furnizeaza precizia ceruta pentru calitatea cea mai ridicata a operatiilor de taiere.

ASAMBLAREA MANERELOR SI ARTICULATIILOR

7. Montarea falcilor pe articulatii si presarea: Manerul este apoi ferm presat pe articulatie, ceea ce asigura ca manerul montat sa nu iasa ulterior nici sub cele mai mari sarcini.





8. Indoireaa manerului: Manerul este indoit la unghiul cerut cu un dispozitiv special de indoit, care va furniza utilizatorului ergonomie superioara



9. Acoperire cu vopsea: Utilizand o tehnologie de vopsire pulverizata, se aplica un strat de vopsea protectoare, ceea ce confera produsului un aspect profesional si serveste de asemnea ca protectie a suprafetei.



10. Insertia manerelor: Acoperirea de PVC este inserata pe maner, pentru a oferi operatorului confort si aderenta optime



11. Fabricarea suruburilor si piulitelor: Sunt fabricate pe masini CNC care, pe langa tratamentele termice si calitatea materialelor folosite, aduc o precizie de uzinaj optima, permitand o legatura solida intre elementele produsului



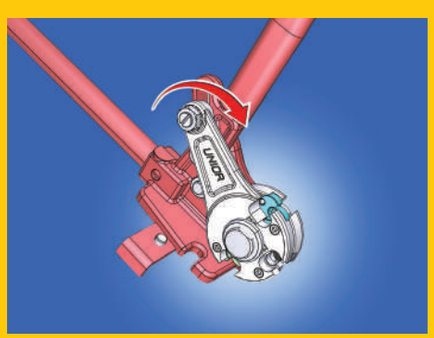
12. Asamblare: Competenta si meticulozitatea lucratorilor maresc calitatatile de asamblare finala a sculelor de taiere si in consecinta, cresc performantele in utilizare ale acestora.



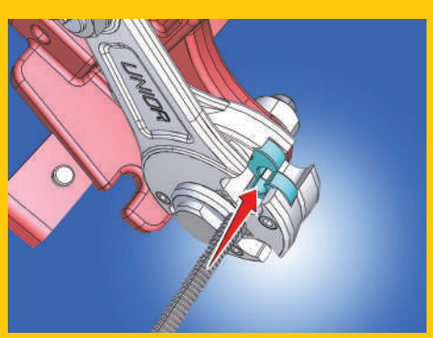
596/6 Dispozitiv taiere bara filetata

Avantaje:
- capabilitate de taiere a trei dimensiuni diferite de bara filetata
- taiere curata-fara arsuri pe suprafata filetului
- protectia filetului
- protectie anticoroziva
- usor de folosit si manuire usoara
- taiere precisa si rapida a filetelor

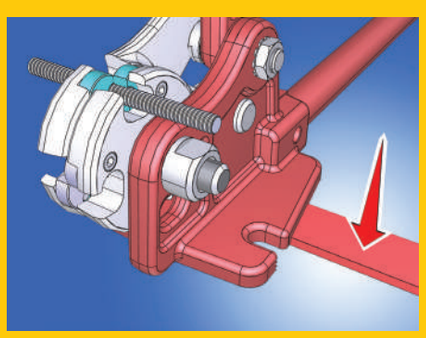




Pentru o taiere corecta, cutitele trebuiesc deschise prin ridicarea la maxim a manerului. In momentul deschiderii maxime introduceti bara filetata intre bacuri pentru dimensiunea barei.



1. Introduceti bara filetata intre bacuri pentru dimensiunea corespunzatoare diametrului barei filetate.
2. Bara filetata trebuie fixata ferm intre bacuri



Important de retinut cand taiati:
1.Cand lucrati pe pardoseala aplicati presiune cu piciorul pe brat.

586/6

Dispozitiv pentru taiere tije filetate

- *executat din otel special forjat,prevazut cu cutite interschimbabile ce permite taierea usoara chiar si a barelor filetate pana la clasa 8,8*
- *tratat complet*
- *cutitele de taiere sunt tratate termic pentru cresterea rezistentei acestora*
- *Manerul este confectionat din teava vopsita in camp electrostatic si manere de plastic pentru o prindere ferma si usoara*

Avantaje:

- *Capabilitate de taiere a trei dimensiuni diferite de bare filetate*
- *taiere curata-fara arsuri pe suprafata filetului*
- *protectia filetului*
- *protectie anticoroziva*
- *usor de folosit si manuire usoara*
- *taiere precisa si rapida a filetelor*
- *manerul a fost realizat la o lungime care sa permita o taire rapida si uniforma. In acelasi timp o forta de taiere mai mica este necesara pentru taierea barelor filetate.*
- *deschidere usoara a cutitelor*
- *pentru o taiere corecta, cutitele trebuiesc deschise prin ridicarea la maxim a manerului.In momentul deschiderii maxime introduceti bara filetata intre bacuri pentru dimensiunea barei.*

Taierea filetului

- *1. Introduceti bara filetata intre bacuri pentru dimensiunea corespunzatoare dimensiunii barei filetate.*
- *2. Bara filetata trebuie fixata ferm intre bacuri*

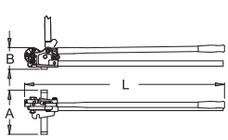
Important de retinut cand taiati

- *1. Cand lucrati pe pardoseala aplicati presiune cu piciorul pe brat*
- *2. Dispozitivul este destinat taierii numai tije filetate M8, M10, M12*
- *3. Dispozitivul nu este destinat taierii barelor filetate calite si a bolturilor*
- *4. Cand taierea este incorecta inlocuiti intotdeuna bacurile de taiere cu unele noi*
- *posibilitate de inlocuire a bacurilor uzate*
- *material bacuri otel special de scule*
- *taie tije filetate de M8,M10,M12*
- *taiere curata fara arderi*
- *protectie a filetelor*
- *mod de operare simplu*

Atentionari!

- *inainte de lucru cititi cu atentie instructiunile*
- *cand lucrati folositi intotdeauna ochelari de protectie*





620256	M 8	M 10	M 12	945	95	210	5750	1D	1	**1008,02**
621479	M 6	M 8	M 10	945	95	210	5100	1D	1	**1008,07**

586.1/7

Falca pentru art. 586/6



621480	M6	31	1E	1	**54,19**
620653	M8	32	1E	1	**54,14**
620654	M10	36	1E	1	**57,35**
620655	M12	38	1E	1	**59,98**

586.2/4

Set de 6 suruburi pentru art. 586.1/7



622705	31	1E	1	**13,52**

586.3/7

Corector de filet pentru 586/6



623121	121	1E	1	**66,40**

585/6

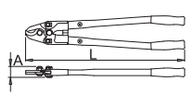
Foarfeca de cabluri

- *material: cutite-otel special, forjat, tratate*
- *manere din teava, vopsie, manere din plastic pentru conditii grele*
- *partea de taiere tratata prin inductie*
- *falci interschimbabile*

Important

- *pentru taierea cablurilor fara inima de otel sau invelis metalic*





615226	550	38	23	2080	1D	1	**389,35**
616732	800	42	39	3660	1D	1	**406,67**

585.1/7

Falci de schimb pentru art. 585



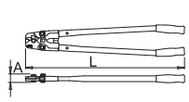
618620	550	354	1E	1	**145,21**
618621	800	810	1E	1	**187,87**

585/6P

Foarfeca pentru cabluri de otel

- *material: cutite-otel special, forjat, tratate*
- *falci interschimbabile*
- *partea de taiere tratata prin inductie*
- *manere din teava, vopsie, manere din plastic pentru conditii grele*





617672	760	36	8	3475	1D	1	**543,22**

585.1/7P

Falci de schimb pentru art. 585 P



UNIOR

618622	765	643	1E	1	357,20

596PLUS/6G

Cleste de buloane cu cutite triunghiulare ascutite interschimbabile

- *material: cutite-otel special, forjat, tratate*
- *falci interschimbabile cu reglare in trei pozitii*
- *manere din teava, vopsie, manere din plastic pentru conditii grele*

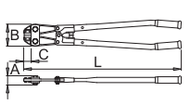
Avantaje:

- *strangere extrema si greutate minima*
- *rezistenta importanta la forte maxime generata in timpul taierii.*
- *rezistenta completa anticoroziune*
- *ghidare simpla si manuire buna*
- *absorbant de soc pentru prevenirea incidentelor*
- *lama triunghiulara-durata de viata de 3 ori mai mare*

Cum se regleaza partea taietoare?

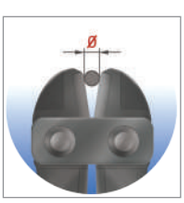
- *Deblocati piulita de siguranta.*
- *Scoateti surubul din locas si rotiti-l pana nu mai exista spatiu intre partile taietoare.*
- *Asigurati piulita.*





UNIOR





	L	A	B	C				
615256	750	43	96	46	4060	1D	1	542,49
615257	900	47	109	50	6300	1D	1	732,40

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ØT	max 650 N/mm² ØT
615256	750	8	13
615257	900	9	16



596.1PLUS/7

Falci de schimb pentru art. 596PLUS/6G

- *falca+suruburi+2 piulite*



UNIOR

615258	750	1468	1E	1	298,39
615259	900	1956	1E	1	379,09

596.2PLUS/7

Cutite de schimb pentru art. 596PLUS/6G

- *elemente de schimb incluzand:2 cutite, 4 saibe plate, 4 suruburi, 4 piulite*



UNIOR

615260	750	116	1E	1	121,95
615261	900	126	1E	1	164,61

596.3PLUS/7

Cutit de schimb pentru art. 596 PLUS/6G

- *parti de schimb incluzand 1 cutit de taiere*



UNIOR

616521	750	22	1E	1	57,06
616522	900	28	1E	1	75,40



596/6A

Cleste de buloane drept

- *material: cutite-otel special, forjat, tratate*
- *partea de taiere tratata prin inductie*
- *manere din teava, vopsie, manere din plastic pentru conditii grele*

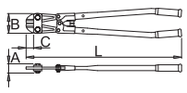
Avantaje:

- *Sistemul de absortie socuri din articulatie asigura absortia socurilor in manere, aceasta la taierea fierului beton.*
- *Protectia suruburilor excentrice pentru reglarea lamelor prin locasuri forjate asigura protectia 100% impotriva desurubarii*



UNIOR





	L	A	B	C				
610963	300	26	40	16	737	1D	1	162,23
610964	350	26	55	24	805	1D	1	180,28
610965	450	34	70	36	1500	1D	1	284,52
610966	600	38	84	40	2600	1D	1	371,99
610967	750	43	96	46	3950	1D	1	487,62
610968	900	47	109	50	6300	1D	1	661,23
612984	1050	48	120	46	6900	1D	1	760,37

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ØT	max 650 N/mm² ØT
610963	300	3	5
610964	350	3,5	5
610965	450	5	8
610966	600	7	10
610967	750	8	13
610968	900	9	16
612984	1050	10	19

596.1/7A

Elemente de shimb pentru art. 595/6A

- *falca+suruburi+2 piulite*



UNIOR

610969	300	265	1E	1	102,84
610970	350	265	1E	1	108,38
610971	450	547	1E	1	164,91
610972	600	877	1E	1	225,71
610973	750	1391	1E	1	253,49
610974	900	1887	1E	1	371,75
613078	1050	2144	1E	1	427,49



CLESTI DE BULOANE CU FALCI DE TAIERE TRIUNGHIULARE INTERSCHIMBABILE



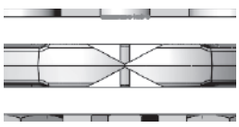
Falca triunghiulara.

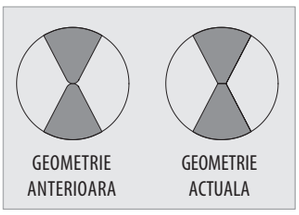


Durata de viata de 3 ori mai lunga.

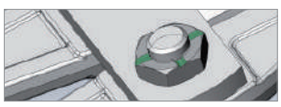
MODIFICARILE PRODUSULUI

Geometria taisului a fost modificata, ceea ce imbunatateste forta de taiere si reduce tendinta ca taisurile sa se incruciseze in timpul taierii. Modificarea reduce uzura muchiilor de taiere si permite mai multe taieturi, prelungind durata de functionare a sculei. Datorita geometriei modificate, este necesara mai putina forta si efort in timpul taierii.





Modificarea securizarii piulitei - acum piulita este presata, inainte fiind asigurata numai cu o saiba. Fixarea este controlata, ceea ce inseamna ca piulita este mai bine fixata chiar si in conditii de utilizare extreme.



Modificarea miscarii falcilor de taiere - fixarea imbunatatita a suruburilor permite un control mai bun al miscarii falcilor - forta necesara pentru a deschide / inchide clestele este redusa.

596/6B

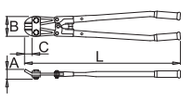
Cleste de buloane indoit

- *material: cutite-otel special, forjat, tratate*
- *partea de taiere tratata prin inductie*
- *manere din teava, vopsie, manere din plastic pentru conditii grele*

Avantaje:

- *Sistemul de absortie socuri din articulatie asigura absortia socurilor in manere, aceasta la taierea fierului beton.*
- *Protectia suruburilor excentrice pentru reglarea lamelor prin locasuri forjate asigura protectia 100% impotriva desurubarii*





UNIOR

	L	A	B	C				
610975	450	34	70	29	1500	1D	1	**278,40**
610976	600	36	84	32	2600	1D	1	**360,80**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ØT	max 650 N/mm² ØT
610975	450	5	8
610976	600	7	10

596.1/7B

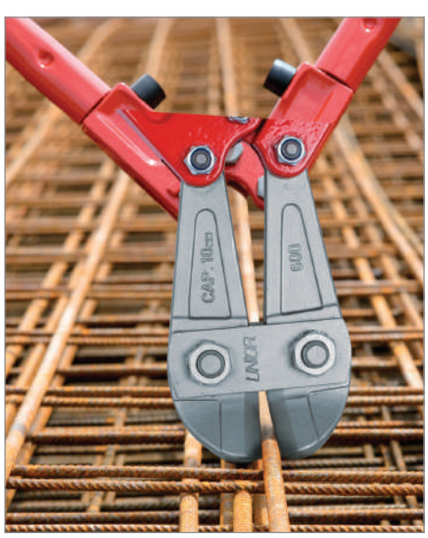
Elemente de shimb pentru art. 595/6B

- *falca+suruburi+2 piulite*



UNIOR

610977	450	542	1E	1	**173,42**
610978	600	858	1E	1	**239,77**





598/6

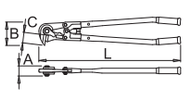
Cleste de buloane la 90°

- *material: cutite-otel special, forjat, tratate*
- *falci intershimbabile si reglabile*
- *partea de taiere tratata prin inductie*
- *manere din teava, vopsie, manere din plastic pentru conditii grele*

Avantaje:

- *Sistemul de absortie socuri din articulatie asigura absortia socurilor in manere, aceasta la taierea fierului beton.*





UNIOR

	L	A	B	C				
608442	1000	46	100	43	4130	1D	1	**418,93**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ØT	max 650 N/mm² ØT
608442	1000	11	13

598.1/7

Elemente de schimb pentru art. 598/6

- *falca+suruburi+2 piulite*



UNIOR

607968	600 - 1000	931	1E	1	**233,74**

Hobby

Ghilotina manuala pentru taiat tabla model Hobby

- *actionare manuala prin combinatie de parghii*
- *taiere rapida a tablei, fasiilor si tijelor metalice*
- *cadru solid de otel pentru rigiditate si forta*
- *lame calite si slefuite cu precizie pentru o taiere exacta*



	Lungime taiere	Grosime taiere	Dimensiuni	Greutate	
Hobby 120-3	120 mm	3,0 mm	50x280x680 mm	7,5 kg	**509,59**
Hobby 150-4	150 mm	4,0 mm	70x300x750 mm	9,0 kg	**638,11**

Hobby-0

Set cutite pentru ghilotina manuala model Hobby

- *cutite calite si slefuite cu precizie pentru o taiere exacta*

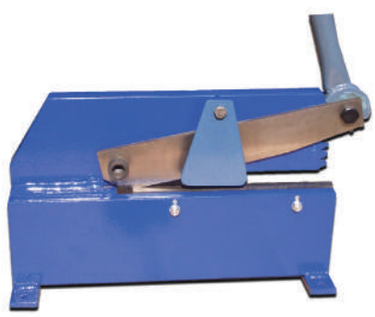


	Lungime taiere	Grosime taiere	Dimensiuni	Greutate	
Hobby 120-30	120 mm	3,0 mm	200x90x10 mm	965 g	**271,13**
Hobby 150-40	150 mm	4,0 mm	200x190x10 mm	1046 g	**320,43**

Profi

Ghilotina manuala pentru taiat tabla model Profi

- *actionare manuala prin combinatie de parghii*
- *taiere rapida a tablei, fasiilor si tijelor metalice*
- *cadru solid de otel pentru rigiditate si forta*
- *lame calite si slefuite cu precizie pentru o taiere exacta*



	Lungime taiere	Grosime taiere	Dimensiuni	Greutate	
Profi 200-5	200 mm	5,0 mm	100x400x950 mm	15,7 kg	**1106,52**
Profi 300-6	300 mm	6,0 mm	550x150x1450 mm	34,5 kg	**2480,49**

Profi-0

Set cutite pentru ghilotina manuala model Profi

- *cutite calite si slefuite cu precizie pentru o taiere exacta*



	Lungime taiere	Grosime taiere	Dimensiuni	Greutate	
Profi 200-50	200 mm	5,0 mm	280x100x15 mm	1506 g	**678,71**
Profi 300-60	300 mm	6,0 mm	390x110x15 mm	3244 g	**1098,67**

563PLUS
567PLUS
591PLUS
592PLUS

FOARFECA UNIVERSALA

Inovatii pentru utilizari industriale



Lame inserate pentru utilizare indelungata



Tampoane ce previn ranirea accidentala a utilizatorului



Manere cu doua straturi pentru utilizare usoara si confortabila



Forma anatomica a manerelor pentru taiere rapida cu mai putin efort













INSTRUMENTE DE MASURA SI CONTROL

Gama complexa

Sunt disponibile mai multe modele: cu cadran de citire directa, cu declansare automatica, cu frangere. Fiecare cheie dinamometrica este prevazuta cu un certifcat de etalonare. Performantele cheilor dinamometrice UNIOR sunt superioare normei ISO 6789.

Programul BMS

cuprinde chei dinamometrice electronice, surubelnite digitale, testere electronice de cuplu, traductoare de cuplu, chei de torsiune, multiplicatori de cuplu si accesorii.

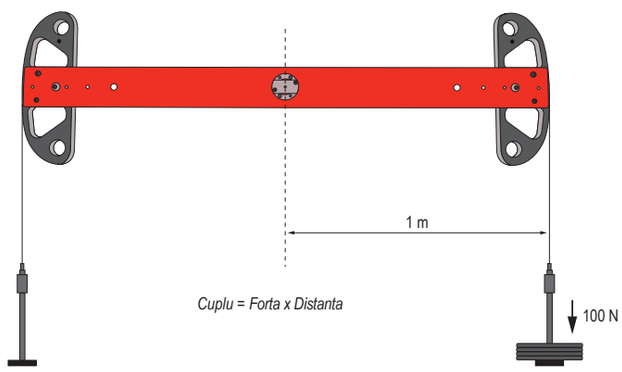
Programul Norbar

specialistul mondial in cupluri de moment, cu una din cele mai mari si moderne fabrici, dedicata exclusiv in designul, dezvoltarea si productia de scule dinamometrice si pentru masurare a cuplului.

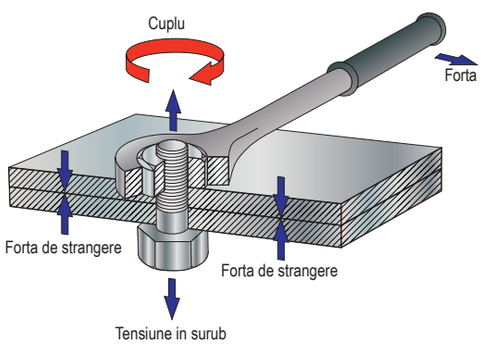
INTRODUCERE IN DINAMOMETRIE

Ce este momentul de torsiune?
Momentul de torsiune este orice forta sau sistem de forte care tinde sa provoace rotatia in jurul unei axe.

Masurarea MOMENTULUI DE TORSIUNE
Imaginati-va ca cineva strange un surub folosind UN CAP DE CHEIE TUBULARA atasata la o bara lunga (m).
Daca aplica 10 kg de forta (kgf) perpendicular pe bara, acestea vor produce un cuplu de 10 kgf · m la axa (centrul surubului).
Cu toate acestea, in sistemul de masurare S.I., forta este exprimata in Newtoni (N) mai degraba decat kgf.
Conversia intre kgf si N este x 9.807, astfel incat persoana aplica un cuplu de 98.07 N · m.

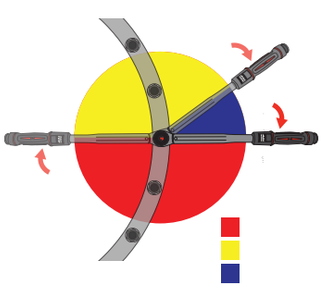


Importanta controlului cuplului
Desi exista multe metode de imbinare a doua sau mai multe parti impreuna, usurinta de asamblare si dezasamblare furnizate prin elemente de fixare filetate le fac alegerea ideala pentru multe aplicatii.
Obiectul unui dispozitiv de fixare filetat este de a prinde piesele impreuna cu o tensiune mai mare decat fortele exterioare care tinde sa le desparta. Surubul ramane apoi sub stres constant si este imun la oboseala. Cu toate acestea, daca tensiunea initiala este prea scazuta, sarcinile diferite actioneaza asupra surubului si acesta va esua rapid. Daca tensiunea initiala este prea mare, procesul de strangere poate provoca ruperea suruburilor.
Astfel, fiabilitatea depinde de tensiunea initiala corecta. Cea mai practica modalitate de a asigura acest lucru este specificarea si controlul cuplului de strangere.



Tensiunea boltului
Atunci cand un ansamblu este fixat prin strangerea unei piulite si a unei suruburi, tensiunea indusa determina intinderea surubului. O forta egala actioneaza pentru a comprima piesele care sunt astfel stranse.
Incarcarea probei unui surub, stabilita in mod normal prin test, este sarcina care incepe sa induca permanent set - cunoscut si ca punct de randament. De obicei, suruburile sunt stranse intre 75% si 90% din randament.

Frecarea in imbinarea cu suruburi
Atunci cand un dispozitiv de fixare filetat este strans, tensiunea indusa duce la frecare sub capul surubului si in spire. Este general acceptat faptul ca pana la 50% din cuplul aplicat este utilizat pentru a depasi frecarea dintre capul surubului si suprafata de incovoiere si alte 30% pana la 40% se pierd de frecare in spire. Doar 10% din cuplul aplicat are ca rezultat o forta utila pentru tensionarea surubului.



Avand in vedere ca pana la 90% din cuplul aplicat se va pierde la frecare, rezulta ca orice modificare a coeficientului de frecare rezultat din diferentele de rugozitate a suprafetei, de suprafata si de lubrifiere poate avea un efect dramatic asupra relatiei cuplu-tensiune. Se pot face cateva puncte generale:

• Cele mai multe imbinari stranse de cuplu nu utilizeaza saibe deoarece utilizarea lor poate duce la miscarea relativa intre piulita si saiba sau saiba si suprafata articulatiei in timpul strangerii. Acest lucru are efectul de a schimba raza de frecare si, prin urmare, afecteaza relatia cuplu-tensiune. In cazul in care este necesara o fata mai mare a lagarului, pot fi utilizate piulite sau suruburi cu flansa. Daca se folosesc saibe, saibele tari care se potrivesc bine cu varful surubului confera frecarea mai mica si mai consistenta si trebuie, in general, sa fie preferate.
• Degresarea elementelor de fixare ale peliculei de ulei de obicei prezenta pe ele, asa cum este furnizata, va reduce tensiunea pentru un cuplu dat si poate duce la forfecarea dispozitivului de fixare inainte de atingerea tensiunii dorite.
• Lubrifiantii simpli, formulati din grafit, disulfura de molibden si ceruri, conduc la o frecare minima. Cu exceptia cazului in care se face o alocare a cuplului de strangere specificat, tensiunea indusa poate fi excesiva, determinand randamentul si ruperea surubului. Cu toate acestea, utilizate intr-un mod controlat, acesti lubrifianti servesc unui scop util in reducerea cuplului pentru a produce tensiunea dorita, ceea ce inseamna ca poate fi utilizata o unealta de strangere cu capacitate mai mica.
• Din motive de aspect sau rezistenta la coroziune, dispozitivele de fixare pot fi placate. Aceste tratamente afecteaza coeficientul de frecare si, prin urmare, raportul cuplu vs. tensiune.
• Frecarea este adesea introdusa deliberat in dispozitivul de fixare pentru a reduce posibilitatea de slabire din cauza vibratiilor. La stabilirea cuplului de strangere corect trebuie luate in considerare dispozitive precum piulitele de blocare.
Ca ghidaj brut, cuplul de strangere calculat trebuie sa fie inmultit cu factorul din tabelul “Ghid de strangere controlata”, in functie de tratamentul de suprafata si de lubrifiere.

Surubelnite si chei dinamometrice	172
Rulete, metre, rigle, ace de trasat	181
Nivele	184
Echere, raportoare, compase, dispozitive de trasare	187
Sublere, micrometre, comparatoare	192
Lere si sabloane	198
Lupe	202
Aparate duritate	202
Refractometre	203



TTs

Surubelnita dinamometrica

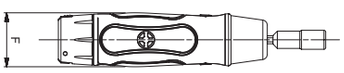
- *livrat cu un suport de biti hexagonali 1/4", pe o tija hexagonala de 4 mm*
- *reglare usoara a cuplului fara a fi nevoie de instrumente suplimentare*
- *sistem de blocare pentru a preveni dereglarea accidentala a cuplului stabilita*
- *precizia depaseste cerintele standardului ISO6789*
- *certificat de calibrare pentru sensul acelor de ceasornic*
- *surubelnita "aluneca" atunci cand se obtine cuplu, eliminand posibilitatea de "suprastrangere"*
- *maner confortabil si reziztent. Manerul este construit folosind doua materiale; un material de baza pentru rezistenta suprapus cu un maner moale pentru confort si rezistenta la alunecare*

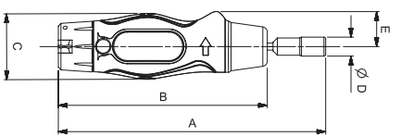












			A	B	C	ØD	E	F		
13700	0.3-1.5	1/4"	155	121	38	11	20	31	240	**1211.37**
13701	0.6-3.0	1/4"	155	121	38	11	20	31	240	**1211.37**
13702	1.2-6.0	1/4"	155	131	38	11	20	31	240	**1211.37**

263

Cheie dinamometrica cu reglaj si declansator

- *precizie: +/-3%*
- *scala micrometrica pentru reglari simple si precise*
- *reglare cu sistem de blocare pentru setarile cheii*
- *aplicarea momentului:in ambele sensuri, dar intotdeauna in directia indicata pe manerul cheii*
- *maner bimaterial din doua componente*
- *scala duala in lbf.ft si Nm*

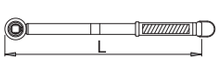
Important

- *nu folositi cheia dinamometria pentru desurubare!*
- *aplicati momentul de torsiune numai in directia indicata pe stiker.Stikerul va indica sensul corect de strangere.*
- *intervalul dintre doua calibrari ale cheii este de 12 luni sau 5000 de strangeri de la data cumpararii.*
- *INTOTDEAUNA aduceti mecanismul de reglare la punctul de start cand terminati lucrul.*
- *cand momentul reglat este atins va rugam sa opriti actionarea cheii.*
- *cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*









			L					
626765	12 - 60	10 - 45	238	3/8"	700	1S	1	**965.94**
626766	40 - 200	30 - 150	459	1/2"	1000	1S	1	**1011.85**
626767	60 - 340	50 - 250	679	1/2"	1550	1S	1	**1603.25**



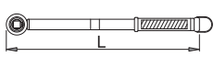
MW

Cheie dinamometrica cu reglaj si declansator acuratete ±3%

- *clichet reversibil cu 45 de dinti*
- *carcasa din otel aliat calit pentru rezistenta si durabilitate, rezultand un design mai subtire si usor*
- *citire usoara a momentului reglat*
- *manerele ergonomice moi sunt mai putin obositoare si mai confortabil de folosit decat otelul striat sau plasticul dur ce se gaseste pe cele mai multe dintre chei*
- *afisaj: metric si imperial*
- *unitati de masura: Nm, Inlbs, Ftlbs*
- *calibrare: ISO 67829-2003 & ASME B107.14M (furnizate cu certificat de calibrare)*
- *mecanismul de declansare bi-directional este montat pe rulmenti pentru o eliberare mai precisa si consecventa in conditii de operare diferite*
- *aliaj de crom siliciu temperat, similar cu arcurile de supapa de la automobile, asigura performanta pe termen lung*



Ecranul de citire al momentului prestabilit are varianta de Nm si Ft.lbs



			L				
MW125	25-125	20-90 lbs.ft	422		3/8"	900	**1098,15**
MW335	65-335	50-250 lbs.ft	519		1/2"	1200	**1206,44**

NorTorque®

Cheie dinamometrica cu reglaj si declansator

1/2"

- *precizie: +/-3%*
- *scala micrometrica pentru reglari simple si precise*
- *reglare cu sistem de blocare pentru setarile cheii*
- *aplicarea momentului:in ambele sensuri, dar intotdeauna in directia indicata pe manerul cheii*
- *maner bimaterial din doua componente*
- *scala duala in lbf.ft si Nm*

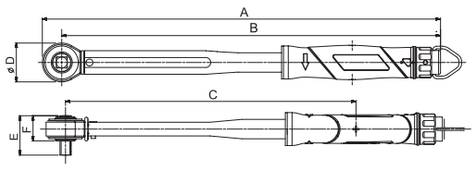












130106	1/2"	60 - 340	45 - 250	784	690	643	52	89	304	45	28	3000	**1209.67**

2AR 1/2"

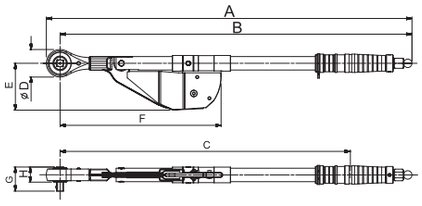
Cheie dinamometrica industriala 1/2"

1/2"

- *constructia robusta ii confera o acuratete in rezultate, de +/-4% , chia in conditii grele de lucru*
- *fiecare cheie este livrata cu un certificat de calibrare in conformitate cu ISO 9000:2000*
- *unghiul mare de frangere imbunatateste acuratetea reducand posibilitate de suprasarcina a momentului*
- *cama de control a mecanismului confera o frangere controlata care nu va permite balansul operatorului*
- *aplicarea momentului:in ambele sensuri, dar intotdeauna in directia indicata pe manerul cheii*
- *scala dubla N.m si lbf.ft*
- *in conformitate cu standardul ISO 6789*







12111	1/2"	80 - 340	60 - 250	784	690	643	52	89	304	45	28	3000	**3270.28**

264

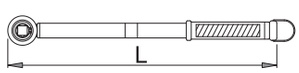
Cheie dinamometrica cu declansator

- *capul cu clichet reversibil*
- *aplicarea momentului intr-un singur sens si intotdeauna in directia indicata pe manerul cheii*
- *cheia lucreaza in sensul acelor de ceasornic si in sens invers acestora*
- *pentru actionare la stanga sau la dreapta*
- *nu lipseste semnalul la momentul prestabilit*
- *recalibrarea cheii se efectueaza la un interval de 12 luni de utilizare sau aproximativ 5000 de cicluri!*
- *in conformitate cu standardul ISO 6789*
- *scala dubla, Nm si Kg*

Important

- *Nu folositi cheia dinamometria pentru desurubare!*
- *Aplicati momentul de torsiune numai in directia indicata pe stiker.Stikerul va indica sensul corect de strangere.*
- *Intervalul dintre doua calibrari ale cheii este de 12 luni sau 5000 de strangeri de la data cumpararii.*
- *INTOTDEAUNA aduceti mecanismul de reglare la punctul de start cand terminati lucru.*
- *Cand momentul reglat este atins va rugam sa opriti actionarea cheii.*
- *Cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*





615485	1/4"	2 - 24	270	686	1S	1	**381.57**
615486	3/8"	5 - 110	360	1100	1S	1	**381.57**
615487	1/2"	28 - 210	465	1680	1S	1	**381.57**
615488	1/2"	35 - 350	640	2930	1S	1	**583.55**
615489	3/4"	70 - 560	840	5600	1S	1	**1107.26**
615490	3/4"	140 - 700	1070	8200	1S	1	**2020.03**
615491	1"	140 - 980	1220	8800	1S	1	**2394.06**



265

Cheie dinamometrica industriala 3/4"

3/4"

- *constructia robusta ii confera o acuratete in rezultate, de +/-4% , chiar in conditii grele de lucru*
- *fiecare cheie este livrata cu un certificat de calibrare in conformitate cu ISO 9000:2000*
- *unghiul mare de frangere imbunatateste acuratetea reducand posibilitate de suprasarcina a momentului*
- *cama de control a mecanismului confera o frangere controlata care nu va permite balansul operatorului*
- *aplicarea momentului:in ambele sensuri, dar intotdeauna in directia indicata pe manerul cheii*
- *scala dubla N.m si lbf.ft*
- *in conformitate cu standardul ISO 6789*

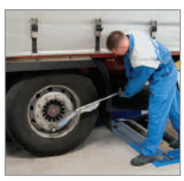
Utilizare

- *echipament agricol*
- *sectorul de constructii*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *industria aerospatiala*
- *nu folositi cheia dinamometria pentru desurubare!*

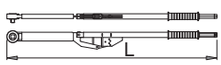
Important

- *scula trebuie folosita cu o forta constanta si respectand instructiunile de utilizare*
- *aplicati momentul de torsiune numai in directia indicata pe stiker.Stikerul va indica sensul corect de strangere.*
- *intervalul dintre doua calibrari ale cheii este de 12 luni sau 5000 de strangeri de la data cumpararii.*
- *INTOTDEAUNA aduceti mecanismul de reglare la punctul de start cand terminati lucrul.*
- *cand momentul reglat este atins va rugam sa opriti actionarea cheii.*
- *cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*









UNIOR

616801	3/4"	150 - 700	100 - 500	1090	8500	1S	1	**4077.33**
616802	3/4"	200 - 800	150 - 600	1140	9000	1S	1	**4118.72**
616803	3/4"	300 - 1000	200 - 750	1470	11000	1S	1	**4177.49**

Ghid de utilizare a hexagoanelor metric

Clasa	8.8		10.9		12.9		Dimensiune cap tubular
Dimensiune normala si pasul filetului	Moment Nm						
	Uscat	Umed	Uscat	Umed	Uscat	Umed	
M5 x 0.80	6.1	4.6	8.8	6.7	10.3	7.7	8 - 9
M6 x 1.00	10.4	7.8	15	11.2	17.6	13.1	10
M7 x 1.00	17.6	13.1	25.1	18.9	29.4	22	10 - 12
M8 x 1.25	25.4	19.1	37.6	27.3	42.6	32.1	13 - 14
M10 x 1.50	50	38	72	54	84	64	15 - 16 - 17
M12 x 1.75	88	6	126	94	146	110	18 - 19 - 20
M14 x 2.00	141	106	201	150	235	176	21 - 22 - 23
M16 x 2.00	218	164	312	233	365	274	24 - 25 - 26
M18 x 2.50	301	226	431	323	504	378	27 - 28
M20 x 2.50	426	319	609	457	712	534	30
M22 x 2.50	580	435	831	624	971	728	32 - 34
M24 x 3.00	736	552	1052	789	1231	923	36
M27 x 3.00	1079	809	1544	1158	1805	1353	41
M30 x 3.50	1463	1097	2092	1570	2446	1834	46
M33 x 3.50	1990	1493	2849	2137	3328	2497	50
M36 x 4.00	2557	1918	3659	2744	4276	3208	55

5AR

Cheie dinamometrica industriala

1/2"

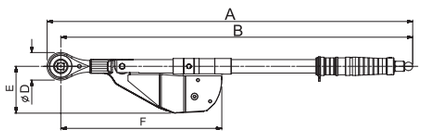
- *constructia robusta ii confera o acuratete in rezultate, de +/-4% , chiar in conditii grele de lucru*
- *fiecare cheie este livrata cu un certificat de calibrare in conformitate cu ISO 9000:2000*
- *unghiul mare de frangere imbunatateste acuratetea reducand posibilitate de suprasarcina a momentului*
- *cama de control a mecanismului confera o frangere controlata care nu va permite balansul operatorului*
- *aplicarea momentului:in ambele sensuri, dar intotdeauna in directia indicata pe manerul cheii*
- *scala dubla N.m si lbf.ft*
- *in conformitate cu standardul ISO 6789*











Norbar Torque Tools

12012	3/4"	700-1500	500-1000	1382	1347	1267	69	73	911	55	35	10400	**5691.16**
12012.01	1"	700-1500	500-1000	1382	1347	1267	69	73	911	63	35	10400	**6085.81**



1. Desurubati surubul de la baza ca sa eliberati surubul pentru ajustarea cuplului de strangere



2. Ajustati la cuplul de strangere stabilit



3. Insurubati la loc surubul de la baza pentru a fixa ajustarea cuplului.



4. Ajustati si incepeti strangerea (in sensul cuplului prestabilit). Cand auziti semnalul audio (click), cuplul prestabilit a fost atins. Opriti strangerea.

6AR

Cheie dinamometrica industriala 1"

1/2"

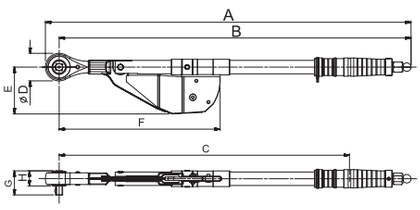
- *constructia robusta ii confera o acuratete in rezultate, de +/-4% , chia in conditii grele de lucru*
- *fiecare cheie este livrata cu un certificat de calibrare in conformitate cu ISO 9000:2000*
- *unghiul mare de frangere imbunatateste acuratetea reducand posibilitate de suprasarcina a momentului*
- *cama de control a mecanismului confera o frangere controlata care nu va permite balansul operatorului*
- *aplicarea momentului:in ambele sensuri, dar intotdeauna in directia indicata pe manerul cheii*
- *scala dubla N.m si lbf.ft*
- *in conformitate cu standardul ISO 6789*











				A	B	C	ØD	E	F	G	H		
12100	1"	900-2000	700-1500	1802	1767	1687	69	73	1331	63	35	13000	**10645.89**

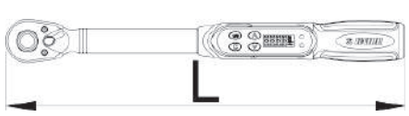
266B

Cheie dinamometrica cu afisaj electronic

1/2"

- *chei dinamometrice special concepute pentru servisarea bicicletelor*
- *maner antalunecare*
- *avertizare la atingerea cuplului: sonor + 2 LED-uri*
- *mod de functionare: peak hold / track*
- *unitati de masura: N-m, in-lb, ft-lb, kg-cm*
- *numar dinti clichet: 60*
- *baterie: 1 × AAA (nu sunt incluse), compatibil cu baterie reincarcabila*
- *garantie: 10.000 cicluri / un an*
- *oprirea automată după 5 minute*





			L			
627784	1/4"	1.0 - 20	207	1S	1	**1226.93**
627785	1/2"	4.2 - 85	290	1S	1	**1226.93**

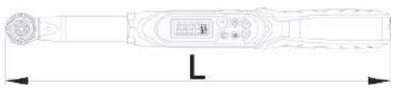
266

Cheie dinamometrica cu afisaj electronic 1/4" 1,5-30 Nm

1/2"

- *avertizare atingere cuplul setat: sonor + 12 LED-uri*
- *modul de functionare: Peak hold / Track*
- *selectie unitate: N-m, in-lb, ft-lb, kg-cm*
- *tip cap: cap interschimbabil*
- *numar de dinti clichet: 52*
- *baterii: AA × 2 bucati*
- *durata de viata a bateriei (functionare continua): 110 ore*
- *durata de viata a bateriei (standby): 1 an*
- *capacitate memorie: 250 masuratori*
- *10 setari cuplu prestabilite*
- *temperatura de functionare: -10˚C ~ 60˚C*
- *temperatura de depozitare: -20˚C ~ 70˚C*
- *umiditate: pana la 90% fara condens*
- *test la cadere: 1 m*
- *test vibratii: 10G*
- *garantie: 10.000 cicluri / un an*
- *etalonari online*
- *certificat de compatibilitate electromagnetic*
- *acuratete CW: +/-2%, CCW: +/-3%*
- *posibilitate de conecatre la PC*





				L	Rezolutie			
627575	1/4"	1.5 - 30	1.11 - 22.12	390	0.01 Nm	1S	1	**1822.98**

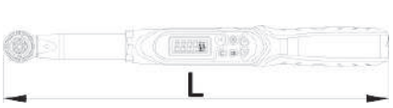
266

Cheie dinamometrica cu afisaj electronic 1/2" 6,8-135 Nm

1/2"

- *avertizare atingere cuplul setat: sonor + 12 LED-uri*
- *modul de functionare: Peak hold / Track*
- *selectie unitate: N-m, in-lb, ft-lb, kg-cm*
- *tip cap: cap interschimbabil*
- *numar de dinti clichet: 52*
- *baterii: AA × 2 bucati*
- *durata de viata a bateriei (functionare continua): 110 ore*
- *durata de viata a bateriei (standby): 1 an*
- *capacitate memorie: 250 masuratori*
- *10 setari cuplu prestabilite*
- *temperatura de functionare: -10˚C ~ 60˚C*
- *temperatura de depozitare: -20˚C ~ 70˚C*
- *umiditate: pana la 90% fara condens*
- *test la cadere: 1 m*
- *test vibratii: 10G*
- *garantie: 10.000 cicluri / un an*
- *etalonari online*
- *certificat de compatibilitate electromagnetic*
- *acuratete CW: +/-2%, CCW: +/-3%*
- *posibilitate de conecatre la PC*





				L	Rezolutie			
627576	1/2"	6.8 - 135	5.0 - 99.5	410	0.01 Nm	1S	1	**1937.48**

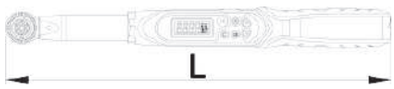
266

Cheie dinamometrica cu afisaj electronic 1/2" 10-200 Nm

1/2"

- *avertizare atingere cuplul setat: sonor + 12 LED-uri*
- *modul de functionare: Peak hold / Track*
- *selectie unitate: N-m, in-lb, ft-lb, kg-cm*
- *tip cap: cap interschimbabil*
- *numar de dinti clichet: 52*
- *baterii: AA × 2 bucati*
- *durata de viata a bateriei (functionare continua): 110 ore*
- *durata de viata a bateriei (standby): 1 an*
- *capacitate memorie: 250 masuratori*
- *10 setari cuplu prestabilite*
- *temperatura de functionare: -10˚C ~ 60˚C*
- *temperatura de depozitare: -20˚C ~ 70˚C*
- *umiditate: pana la 90% fara condens*
- *test la cadere: 1 m*
- *test vibratii: 10G*
- *garantie: 10.000 cicluri / un an*
- *etalonari online*
- *certificat de compatibilitate electromagnetic*
- *acuratete CW: +/-2%, CCW: +/-3%*
- *posibilitate de conecatre la PC*





UNIOR

627577	1/2"	10 - 200	7.4 - 147.5	410	0.01 Nm	1S	1	2052.13

TWW (EZ)

Cheie dinamometrica cu afisaj electronic si cu capete interschimbabile EZ acuratete ±1%

- *usor de utilizat cu ajutorul meniului*
- *precizie mai buna de 1%*
- *unghi de vizualizare de 170 grade*
- *durata de viata a bateriei mai mare de 180 de ore*
- *optiune de personalizare*
- *Clichet reversibil*
- *Accesorii disponibile: capete chei fixe si inelare*
- *Cu LED si ecran cu vizibilitate mare*
- *Semnale de avertizare*
- *Membrana tactila*
- *Comutator cu semnale de avertizare verde/rosu*
- *Manere ergonomice pentru confort*
- *Patru baterii AA*



Mod de urmarire



afiseaza cuplul aplicat in timp real

Mod de presetare



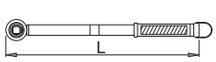
ecranul isi schimba culoarea la atingerea cuplului presetat

Memorie



memoreaza si afiseaza mai mult de 2000 de rezultate sau incarcari pe PC sau SPC

BMS TORQUE SOLUTIONS



TW800W	80 - 800		1200		3/4"	4000	6574,80

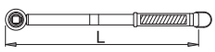
TWP (Pro)

Cheie dinamometrica cu afisaj electronic si cu capete interschimbabile Pro acuratete ±1%

- *idem model EZ in plus optiunile conform tabelului de mai jos*



BMS TORQUE SOLUTIONS



TW2000P	200 - 2000		1600		1"	5500	15012,29

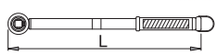
TWS (Super)

Cheie dinamometrica cu afisaj electronic si cu capete interschimbabile Super acuratete ±1%

- *idem model EZ in plus optiunile conform tabelului de mai jos*



BMS TORQUE SOLUTIONS



TW010S	1 - 10		410		3/8"	850	4573,77
TW050S	5 - 50		410		3/8"	850	4573,77
TW150S	15 - 150		625		1/2"	1300	4831,97
TW200S	20 - 200		625		1/2"	1300	4831,97
TW340S	34 - 340		625		1/2"	1300	4831,97
TW600S	60 - 600		1200		3/4"	4000	10401,64

OPTIUNI MENIU	Ez	Pro	Super
Limba, comunicatii, varf, setare, incarcare, stergere		●	●
Data, parcurs, presetare, unitati	●	●	●
Afisaj cu LED	●	●	●
Unitati de masura: cNm, Nm, kgfm, kgfcm, ozins, lbins, lbft	●	●	●
Alarme: semnale audio si vizuale	●	●	●
Setare automata a punctului zero	●	●	●
Inchidere automata	●	●	●
Depasirea cuplului: sistem de avertizare pe ecran	●	●	●
Capete interschimbabile	●	●	●
Baterii: durata de viata mai mare de 180 de ore	●	●	●
Capacitate de stocare: mai mare de 2000 de inregistrari		●	●
Limbi: engleza,	●	●	●
chineza, franceza, germana, italiana, japoneza, poloneza, portugheza, rusa, spaniola, romana si altele, la cerere			●
Presetari programabile: 99, prin PC sau direct pe cheie			●
Calibrare electronica: dupa data sau numar de masuratori			●
Precizie mai buna de 1% din citirile reale LHS & RHS de la 10% la 100% din intervalul specificat	●	●	●
Afisare masuratori: de la 2% pana la maxim	●	●	●
Compatibil Windows Excel si SPC			●
Comunicare USB bidirectionala		●	●
Comunicari PLC: folosind transferul ASCII sau binar			●

OPTIUNI MENIU	Angle
Limba, comunicatii, varf, setare, incarcare, stergere	●
Data, parcurs, presetare, unitati	●
Afisaj cu LED	●
Unitati de masura: cNm, Nm, kgfm, kgfcm, ozins, lbins, lbft	●
Alarme: semnale audio si vizuale	●
Setare automata a punctului zero	●
Inchidere automata	●
Depasirea cuplului: sistem de avertizare pe ecran	●
Capete interschimbabile	●
Baterii: durata de viata mai mare de 180 de ore	●
Capacitate de stocare: mai mare de 2000 de inregistrari	●
Limbi: engleza,	●
chineza, franceza, germana, italiana, japoneza, poloneza, portugheza, rusa, spaniola, romana si altele, la cerere	●
Presetari programabile: 99, prin PC sau direct pe cheie	●
Calibrare electronica: dupa data sau numar de masuratori	●
Precizie mai buna de 1% din citirile reale LHS & RHS de la 10% la 100% din intervalul specificat	●
Afisare masuratori: de la 2% pana la maxim	●
Compatibil Windows Excel si SPC	●
Comunicare USB bidirectionala	●
Comunicari PLC: folosind transferul ASCII sau binar	●

DESCRIEREA FUNCTIILOR CHEII DINAMOMETRICE BMS

MODUL TRACK
In momentul aplicarii cuplului, cheia dinamometrica va afisa in mod activ aceasta valuare. Afisajul va reveni la zero, atunci cand inceteaza aplicarea cuplului.

MODUL (MOMENT MAXIM) PEAK
Afisajul cuplului maxim ramane in continuare activat in cazul in care inceteaza aplicarea cuplului Utilizatorul are optiunea de a stoca citirile in memorie sau a continua cu urmatoarea citire.

NUMAI DEPLASARE
Afisarea momentului de torsiune la un unghi specificat de catre utilizator (implicit de 3 grade) precum si unghiul si cuplul final. Utilizatorul poate memora rezultatele.

NUMAI UNGHIUL
Afiseaza cuplul si unghiul in timpul aplicarii momentului de torsiune. Utilizatorul poate stoca rezultatele finale

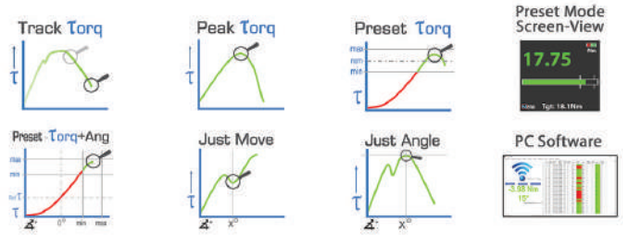
REGLAJ
Permite utilizatorului sa regleze limitele pentru functia de moment de torsiune si moment & unghi.

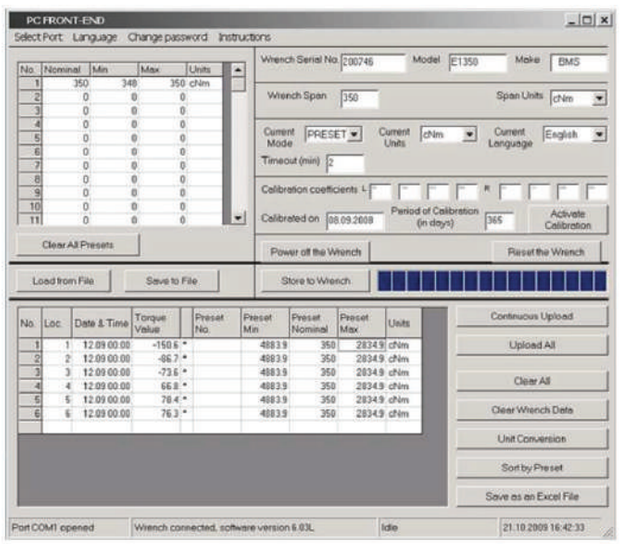
PRESETARE
In cazul functiei de presetare, utilizatorul poate alege pana la 99 de presetari programate cu limitari pentru cuplu sau unghiul cuplului. Rezultatele pot fi stocate.

RECHEMARE
Cu ajutorul functiei de rechemare, utilizatorul poate derula peste 2000 de rezultate stocate.

INCARCARE
Cu ajutorul functiei de incarcare, utilizatorul poate incarca toate sau o selectie de informatii stocate de cheia dinamometrica

COMMS *(comunicatii)*
Cu ajutorul functiei Comms utilizatorul poate alege metoda incarcarii informatiilor pe un calculator. Exista posibilitatea alegerii intre ASCII, Binary si PCFE.



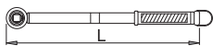


TAW

Cheie dinamometrica unghiulara cu afisaj digital acuratete ±1%

- *usor de utilizat cu ajutorul meniului*
- *precizie mai buna de 1%*
- *unghi de vizualizare de 170 grade*
- *durata de viata a bateriei mai mare de 180 de ore*
- *optiune de personalizare*
- *clichet reversibil*
- *accesorii disponibile: capete chei fixe si inelare*
- *ecran cu vizibilitate mare*
- *semnale de avertizare, membrana tactila, cu comutator cu semnale de avertizare verde/rosu*
- *manere ergonomice pentru confort*
- *patru baterii AA*
- *software PCFE*





		L			
TAW020	2 - 20	410	1/4"	850	**9184,43**
TAW050	5 - 50	410	3/8"	850	**9184,43**
TAW250	25 - 250	625	3/8"	1300	**9442,62**

Convertor dinamometrie

Unitate convertita	Sistem international S.I.			IMPERIAL			METRIC		
	mN·m	cN·m	N·m	ozf·in	lbf·in	lbf·ft	gf·cm	kgf·cm	kgf·m
1 mNm	1	0.1	0.001	0.142	0.009	0.0007	10.2	0.01	0.0001
1 cNm	10	1	0.01	1.416	0.088	0.007	102	0.102	0.001
1 Nm	1000	100	1	141.6	8.851	0.738	10197	10.2	0.102
1 ozfin	7.062	0.706	0.007	1	0.0625	0.005	72	0.072	0.0007
1 lbfin	113	11.3	0.113	16	1	0.083	1152.1	1152	0.0115
1 lbfft	1356	135.6	1.365	192	12	1	13826	13.83	0.138
1 gfcm	0.098	0.01	0.0001	0.014	0.0009	0.00007	1	0.001	0.00001
1 kgfcm	98.07	9.807	0.098	13.89	0.868	0.072	1000	1	0.01
1 kgfm	9807	980.7	9.807	1389	86.8	7.233	100000	100	1

SL0

Cheie dinamometrica mecanica cu capete interschimbabile acuratete ±3%

16 mm

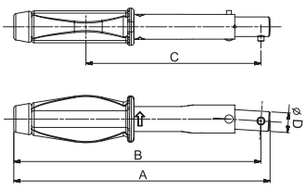
- *cheie dinamometrica fara scala*
- *cuplu presetat reglabil doar cu ajutorul unui aparat de masurare a momentului de torsiune, sau un dispozitiv similar*
- *toate cheile dinamometrice NORBAR sunt proiectate si fabricate pentru a depasi standardele internationale: BS6703: 1988, ISO 6789: 1992 si USAGGG-W-00686-C (GSA-FSS)*
- *certificat de calibrare in conformitate cu ISO 9000*
- *versiunea tip "P" este menita sa descurajeze modificari neautorizate*











	●			A	B	C	ØD		
11090	16	1.0 - 20.0	10 - 180	210	199	143	16	400	**966.50**

THP

Cheie dinamometrica mecanica cu capete interschimbabile acuratete ±3%

16 mm

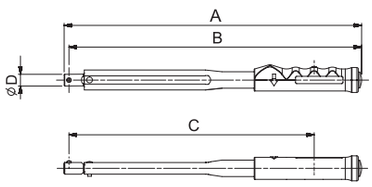
- *cheie dinamometrica fara scala, proiectata pentru liniile de productie unde vor fi setate pentru o anumita aplicatie*
- *cuplu presetat reglabil doar cu ajutorul unui aparat de masurare a momentului de torsiune, sau un dispozitiv similar*
- *toate cheile dinamometrice NORBAR sunt proiectate si fabricate pentru a depasi standardele internationale: BS6703: 1988, ISO 6789: 1992 si USAGGG-W-00686-C (GSA-FSS)*
- *certificat de calibrare in conformitate ISO 9000*
- *semnal inconfundabil atunci cand se ajunge la cuplul setatversiunea de tip "P" este menita sa descurajeze modificari*











	●			A	B	C	ØD		
11167	16	8.0 - 60.0	5 - 45	288	277	212	16	550	**881.90**
11143	16	20.0 - 100.0	15 - 80	315	317	252	16	600	**881.90**
11144	16	40.0 - 200.0	40 - 200	405	399	334	16	780	**978.22**

P 'INDUSTRIAL'

Cheie dinamometrica industriala tip "P" 3/4" - 265 acuratete ±3%

1/2"

• Cheile dinamometrice tip "P" sunt concepute pentru mediul de productie unde acestea sunt presetate si apoi utilizate pentru aplicatii particulare. Nu exista nici o scala, cheia trebuie sa fie reglata pe un dispozitiv de testare cuplu. Clichetul acestui model este proiectat cu robustete, rezistenta si durabilitate crescuta. Rezistenta inalta la uzura se datoreaza modelului patentat al dintilor. Patratul de antrenare cu design robust, permite utilizarea cheii atat in sensul acelor de ceasornic, cat si invers, prin detasarea patratului si re-introducerea pe cealalta parte a capului cu clichet.

Caracteristici:

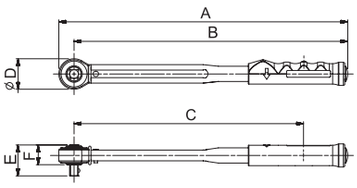
- *Precizia de +/- 3% depaseste toate standardele internationale pentru chei dinamometrice*
- *Etichete colorate pentru a identificarea operatorului chei, precum si pentru inregistrarea perioadei de calibrare.*
- *Sistemul de reglare este conceput pentru a descuraja modificarea neautorizata*
- *Fiecare cheie este livrata cu un certificat de calibrare in conformitate cu ISO 9000*
- *Se livreaza cu: cutie de depozitare din plastic si certificat de calibrare*











	■		A	B	C	ØD	E	F		
13057	1/2"	30 - 300	662	641	577	52	46	29	1240	**1478.57**
13056	1/2"	40 - 400	664	649	584	54	51	28	2040	**2059.83**

2213/2BI

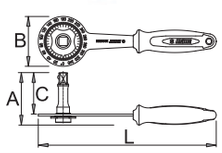
Dispozitiv de strangere unghiulara

- *acesta este folosit pentru suruburile din capul motorului cat si a celorlalte elemente de ansamblare ce necesita a fi stranse la moment, strangerea la unghi este de asemenea posibila.*
- *dacă spatiul de manevra este limitat, se poate folosi un prelungitor pentru obtinerea lungimii dorite*
- *scala este de 360°, cu diviziuni de 2°*

Cum sa utilizați scula:

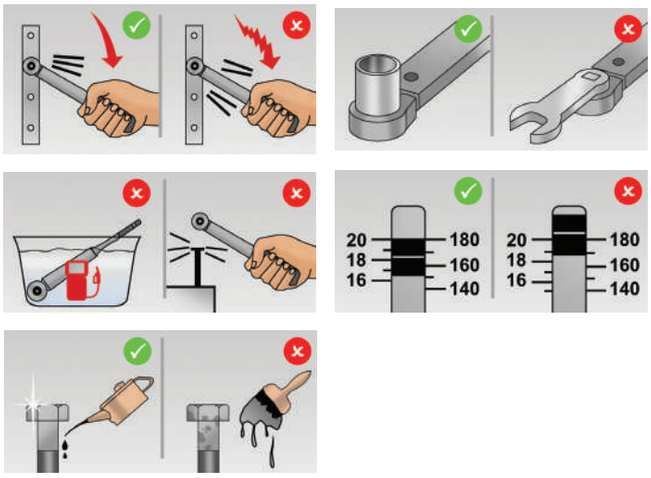
- *opriti scara de unghi cu manerul acesteia penru a evita rotatia in timpul insurubarii, setati indicatorul la zero si apoi strangeti surubul la unghiul prescris cu o alta scula cu anrenare de 1/2"(ex cu un prelungitor cu cardan care este mai lung, tinand cont ca fortele de strangere sunt considerabile)*



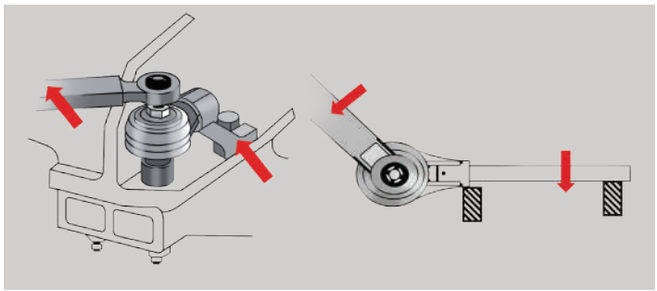


	L	B	A	C			
622815	270	75	80	63	428	1	**148.61**

Utilizarea corecta a cheilor dinamometrice



Utilizarea corecta a multiplicatorului de cuplu



280

Multiplicator de cuplu

- *5:1 moment de multiplicare, acuratete garantata de +/-4%*
- *livrat cu doua modele de bare de antrenare pentru o maxima polivalenta*
- *constructie robusta necesitand intretinere minima si durata de exploatare lunga*
- *se livreaza intr-o cutie de protectie. Ideala pentru a fi inclusa intr-un kit de lucrari grele.*

Avantaje:

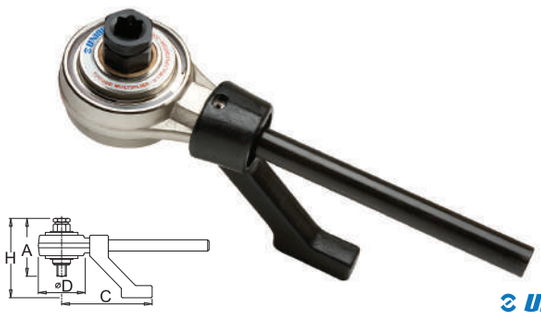
- *definirea exacta a multiplicarii-nu este nevoie de un tabel de conversie*
- *utilizarea simpla nu necesita cunostinte suplimentare*

Utilizare

- *constructii*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *industria aerospatiala*
- *elemente de agregate industriale*
- *rafinarii*

Important

- *Folosirea capetelor de impact UNIOR este recomandata*
- *Nu trebuie sa depasim niciodata momentul de torsiune indicat al multiplicatorului*



UNIOR

						D	A	C	H				
616804	1300	960	5:1	1/2"(32mm)	3/4"	108	126	210	180	7000	1F	1	**6790.40**
616805	2700	2000	5:1	3/4"(36mm)	1"	108	128	210	186	7000	1F	1	**6808.01**

Tabel de conversie al mometului de torsiune din Newton metru in Inch Pounds

Formula conversie: newton metru x 8.85074579 = inch pounds

Newton Meters (N-m)	Inch Pounds (in-lbs)	Newton Meters (N-m)	Inch Pounds (in-lbs)	Newton Meters (N-m)	Inch Pounds (in-lbs)	Newton Meters (N-m)	Inch Pounds (in-lbs)	Newton Meters (N-m)	Inch Pounds (in-lbs)
1 =	8.85	32 =	283.22	63 =	557.60	94 =	831.97	125 =	1106.34
2 =	17.70	33 =	292.07	64 =	566.45	95 =	840.82	126 =	1115.19
3 =	26.55	34 =	300.93	65 =	575.30	96 =	849.67	127 =	1124.04
4 =	35.40	35 =	309.78	66 =	584.15	97 =	858.52	128 =	1132.90
5 =	44.25	36 =	318.63	67 =	593.00	98 =	867.37	129 =	1141.75
6 =	53.10	37 =	327.48	68 =	601.85	99 =	876.22	130 =	1150.60
7 =	61.96	38 =	336.33	69 =	610.70	100 =	885.07	131 =	1159.45
8 =	70.81	39 =	345.18	70 =	619.55	101 =	893.93	132 =	1168.30
9 =	79.66	40 =	354.03	71 =	628.40	102 =	902.78	133 =	1177.15
10 =	88.51	41 =	362.88	72 =	637.25	103 =	911.63	134 =	1186.00
11 =	97.36	42 =	371.73	73 =	646.10	104 =	920.48	135 =	1194.85
12 =	106.21	43 =	380.58	74 =	654.96	105 =	929.33	136 =	1203.70
13 =	115.06	44 =	389.43	75 =	663.81	106 =	938.18	137 =	1212.55
14 =	123.91	45 =	398.28	76 =	672.66	107 =	947.03	138 =	1221.40
15 =	132.76	46 =	407.13	77 =	681.51	108 =	955.88	139 =	1230.25
16 =	141.61	47 =	415.99	78 =	690.36	109 =	964.73	140 =	1239.10
17 =	150.46	48 =	424.84	79 =	699.21	110 =	973.58	141 =	1247.96
18 =	159.31	49 =	433.69	80 =	708.06	111 =	982.43	142 =	1256.81
19 =	168.16	50 =	442.54	81 =	716.91	112 =	991.28	143 =	1265.66
20 =	177.01	51 =	451.39	82 =	725.76	113 =	1000.13	144 =	1274.51
21 =	185.87	52 =	460.24	83 =	734.61	114 =	1008.99	145 =	1283.36
22 =	194.72	53 =	469.09	84 =	743.46	115 =	1017.84	146 =	1292.21
23 =	203.57	54 =	477.94	85 =	752.31	116 =	1026.69	147 =	1301.06
24 =	212.42	55 =	486.79	86 =	761.16	117 =	1035.54	148 =	1309.91
25 =	221.27	56 =	495.64	87 =	770.01	118 =	1044.39	149 =	1318.76
26 =	230.12	57 =	504.49	88 =	778.87	119 =	1053.24	150 =	1327.61
27 =	238.97	58 =	513.34	89 =	787.72	120 =	1062.09	151 =	1336.46
28 =	247.82	59 =	522.19	90 =	796.57	121 =	1070.94	152 =	1345.31
29 =	256.67	60 =	531.04	91 =	805.42	122 =	1079.79	153 =	1354.16
30 =	265.52	61 =	539.90	92 =	814.27	123 =	1088.64	154 =	1363.01
31 =	274.37	62 =	548.75	93 =	823.12	124 =	1097.49	155 =	1371.87

Ghid de strangere controlata

μ=0,10 **tabel de strangere pentru suruburi fosfatate sau zincate,ungerea de buna calitate(μ=coeficient de frecare mediu)**

Ø SURUB	ISO272 Pas filet	DC	Clasa de calitate suruburi de otel ISO 898-1													
			5.6	5.6	5.8	5.8	6.8	6.8	8.8	8.8	9.8	9.8	10.9	10.9	12.9	12.9
mm	ISO mm	mm	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo
1.6	0.35	3.2	0.06	260	0.084	364	0.096	416	0.128	555	0.144	624	0.189	815	0.221	954
2	0.4	4	0.126	432	0.177	604	0.202	690	0.27	921	0.303	1036	0.396	1352	0.483	1582
2.5	0.45	5	0.261	718	0.365	1006	0.417	1150	0.556	1533	0.626	1724	0.82	2251	0.96	2634
3	0.5	5.5	0.44	1077	0.62	1508	0.71	1724	0.95	2298	1.09	2586	1.4	3376	1.64	3951
4	0.7	7	1.03	1868	1.44	2615	1.65	2988	2.2	3985	2.49	4484	3.23	5853	3.78	6849
5	0.8	8	2.03	3053	2.85	4275	3.25	4885	4.34	6514	4.92	7335	6.3	9568	7.4	11196
6	1	10	3.53	4310	4.95	6034	5.6	6896	7.5	9195	8.53	10336	11	13506	12.6	15805
8	1.25	13	8.5	7904	11.9	11066	13.6	12647	18.2	16863	20.63	18968	26	24678	31	28984
10	1.5	16	16.8	12580	23	17612	27	20128	36	26838	41	30197	52	39418	61	46128
12	1.75	18	29	18337	40	25672	46	29339	62	39119	70	44022	91	57457	106	67236
14	2	21	46	25175	65	35245	74	40280	99	53707	111	60251	145	78882	170	92309
16	2	24	71	34597	100	48436	115	55356	153	73808	173	83165	225	108406	263	126858
18	2.5	27	99	42094	139	58932	159	67351	220	92440			313	131897	366	154348
20	2.5	30	140	54059	196	75682	225	86494	311	119003			440	169385	515	198216
22	2.5	34	192	67511	269	94515	307	108017	424	148374			602	211534	704	247540
24	3	36	241	77845	338	108983	387	124552	534	171437			758	243914	887	285432
27	3	41	355	102393	498	143350	569	163829	784	225110			1114	320832	1304	375442
30	3.5	46	483	124491	677	174287	773	199185	1067	274030			1515	390072	1773	456467
33	3.5	50	653	155083	915	217116	1046	248132	1442	341347			2048	485926	2397	568637
36	4	55	841	182032	1177	254845	1346	291252	1855	400571			2636	570369	3085	667453
39	4	60	1088	218667	1523	306135	1741	349868	2399	481158			3410	685159	3990	801782
42	4.5	65	1348	250311	1887	350435	2156	400497	2965	550683			4223	784306	4941	917805
45	4.5	70	1681	292970	2353	410158	2690	468752	3698	644534			5267	917973	6164	1074223
48	5	75	2032	329254	2845	460956	3251	526807	4470	724359			6367	1031663	7450	1207265
52	5	80	2608	395006	3651	553008	4172	632009	5737	869013			8171	1237685	9562	1448354
56	5.5	85	3255	456159	4577	638622	5208	729854	7161	1003549			10199	1429298	11935	1672582
60	5.5	90	4032	532893	5645	746050	6451	852629	8871	1172365			12634	1669732	14785	1953941
64	6	95	4856	602793	6798	843911	7769	964470	10683	1326146			15215	1888753	17805	2210243

μ=0,15 **tabel de strangere pentru suruburi fosfatate sau zincate,ungere superficiala(in stare de livrare)(μ=coeficient de frecare mediu)**

Ø SURUB	ISO272 Pas filet	DC	Clasa de calitate suruburi de otel ISO 898-1													
			5.6	5.6	5.8	5.8	6.8	6.8	8.8	8.8	9.8	9.8	10.9	10.9	12.9	12.9
mm	ISO mm	mm	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo
1.6	0.35	3.2	0.075	234	0.105	327	0.12	374	0.16	499	0.18	561	0.235	732	0.275	857
2	0.4	4	0.159	388	0.222	544	0.254	621	0.339	829	0.381	932	0.498	1217	0.582	1424
2.5	0.45	5	0.33	648	0.463	907	0.529	1036	0.705	1382	0.793	1555	1.04	2030	1.21	2375
3	0.5	5.5	0.57	972	0.8	1362	0.91	1556	1.21	2075	1.38	2335	1.79	3048	2.09	3567
4	0.7	7	1.3	1685	1.83	2359	2.09	2696	2.78	3594	3.16	4044	4.09	5279	4.79	6178
5	0.8	8	2.59	2759	3.62	3682	4.14	4414	5.5	5886	6.27	6626	8.1	8645	9.5	10116
6	1	10	4.49	3891	6.2	5448	7.1	6226	9.5	8302	10.84	9334	14	12194	16.4	14269
8	1.25	13	10.9	7145	15.2	10003	17.4	11432	23	15242	26.34	17146	34	22388	40	26198
10	1.5	16	21	11379	30	15930	34	18206	46	24275	52	27313	67	35655	79	41724
12	1.75	18	37	16594	52	23231	59	26550	79	35401	90	39835	116	51995	136	60845
14	2	21	59	22789	83	31905	95	36463	127	48618	143	54570	187	71408	219	83563
16	2	24	93	31385	130	43939	148	50216	198	66955	224	75422	291	98340	341	115079
18	2.5	27	128	38123	179	53373	205	60998	283	83746			402	119454	471	139787
20	2.5	30	182	49039	254	68655	291	78463	402	107941			570	153657	667	179811
22	2.5	34	250	61326	350	85857	400	98123	552	134806			783	192257	917	224865
24	3	36	313	70616	438	98863	500	112986	691	155489			981	221266	1148	258928
27	3	41	463	93042	649	130259	741	148868	1022	204577			1452	291534	1700	341157
30	3.5	46	628	116045	880	158263	1005	180872	1387	248811			1969	354209	2305	414500
33	3.5	50	854	141009	1195	197412	1366	225614	1884	310343			2676	441828	3132	517033
36	4	55	1096	165409	1534	231573	1754	264655	2418	363974			3435	518282	4020	606501
39	4	60	1424	198910	1994	278474	2279	318257	3139	437669			4463	623253	5223	729339
42	4.5	65	1760	227588	2464	318624	2816	364141	3872	500694			5515	713110	6453	834491
45	4.5	70	2203	266613	3085	373258	3525	426580	4847	586548			6903	835386	8079	977579
48	5	75	2659	299530	3722	419342	4254	479248	5849	658966			8330	938258	9748	1098277
52	5	80	3425	359684	4795	503558	5480	575495	7335	791306			10731	1127011	12558	1318843
56	5.5	85	4270	415172	5978	581240	6832	664275	9394	913378			13379	1300871	15656	1522296
60	5.5	90	5306	485416	7428	679583	8490	776666	11673	1067916			16625	1520971	19455	1779860
64	6	95	6382	548969	8935	768556	10212	878350	14041	1207731			19998	1720102	23402	2012885

μ=0,20 **tabel de strangere pentru suruburi acoperite sau fara acoperire.Montaj uscat fara ungere (μ=coeficient de frecare mediu)**

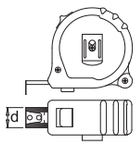
Ø SURUB	ISO272 Pas filet	DC	Clasa de calitate suruburi de otel ISO 898-1													
			5.6	5.6	5.8	5.8	6.8	6.8	8.8	8.8	9.8	9.8	10.9	10.9	12.9	12.9
mm	ISO mm	mm	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo
1.6	0.35	3.2	0.086	210	0.12	294	0.137	335	0.183	447	0.206	503	0.269	657	0.315	769
2	0.4	4	0.183	349	0.256	488	0.293	558	0.39	744	0.439	837	0.573	1093	0.671	1279
2.5	0.45	5	0.383	582	0.536	815	0.612	931	0.816	1242	0.918	1397	1.2	1824	1.4	2134
3	0.5	5.5	0.66	874	0.92	1224	1.06	1399	1.41	1866	1.6	2099	2.07	2740	2.43	3207
4	0.7	7	1.51	1514	2.11	2120	2.42	2422	3.22	3230	3.66	3635	4.74	4744	5.5	5552
5	0.8	8	3	2481	4.2	3473	4.81	3970	6.4	5293	7.27	5958	9.4	7774	11	9098
6	1	10	5.2	3498	7.2	4893	8.3	5598	11.1	7464	12.57	8392	16.3	10962	19.1	12828
8	1.25	13	12.6	6426	17.7	8997	20	10283	27	13710	30.62	15423	39	20137	46	23565
10	1.5	16	25	10238	35	14334	40	16382	53	21843	61	24575	78	32082	92	37542
12	1.75	18	43	14934	60	20908	69	23895	92	31860	105	35849	136	46795	159	54760
14	2	21	69	20514	97	28719	111	32800	148	43763	167	49142	218	64277	255	75218
16	2	24	108	28280	152	39592	174	45248	232	60331	262	67944	341	88611	399	103694
18	2.5	27	149	34324	209	48054	239	54919	330	75421			469	107549	549	125856
20	2.5	30	213	44188	298	61863	341	70700	471	97253			667	138456	781	162023
22	2.5	34	293	55298	411	77418	470	88478	648	121574			920	173269	1077	202762
24	3	36	366	63630	513	89083	586	101809	809	140084			1148	199376	1343	233313
27	3	41	544	83910	762	117474	871	134257	1201	184517			1706	262920	1997	307672
30	3.5	46	737	101914	1032	142679	1180	163062	1628	224292			2311	319331	2704	373685
33	3.5	50	1004	127210	1406	178094	1607	203536	2216	279953			3148	398593	3684	466438
36	4	55	1288	149174	1803	208844	2060	238679	2840	328236			4036	467413	4723	546973
39	4	60	1677	179487	2348	251282	2683	287179	3697	394919			5255	562393	6150	658119
42	4.5	65	2070	205323	2898	287452	3312	328516	4554	451710			6486	643344	7590	752849
45	4.5	70	2596	240641	3635	336897	4154	385025	5712	529410			8136	754008	9520	882350
48	5	75	3130	270321	4383	378449	5009	432514	6887	594706			9809	847006	11478	991177
52	5	80	4041	324763	5657	454668	6465	519620	8889	714478			12661	1017590	14816	1190797
56	5.5	85	5034	374739	7048	524635	8054	599582	11075	824426			15773	1174182	18458	1374043
60	5.5	90	6266	438337	8772	613672	10026	701340	13785	964342			19634	1373457	22976	1607237
64	6	95	7533	495676	10546	693947	12052	793082	16572	1090488			23603	1553119	27620	1817480

710P

Rulete

- *carcasa din doua materiale*
- *cu blocare dubla, bratara de prindere si clips*
- *banda de masurare din otel cu foarte buna elasticitate*
- *marcaj producator*
- *marcaj de metrologizare*
- *clasa de precizie II*





UNIOR

	m	ft	d				
612131	2	0	16	113	4A	10	**14.20**
612132	3	0	16	140	4A	10	**20.33**
612133	5	0	19	230	4A	10	**31.81**
612134	8	0	25	441	4A	10	**60.76**
612135	10	0	25	470	4A	10	**75.21**

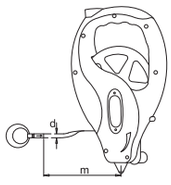
714

Ruleta lunga

- *carcasa de plastic din doua materiale*
- *banda de otel imbracata in invelis acrilic pentru o durata de viata mai lunga*
- *viteza de 6 ori mai mare la strangere*







UNIOR

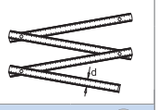
	m	d				
621525	50	13	1100	1G	1	**114.41**

710W

Metru pliabil

- *metru pliabil din lemn de fag*
- *mm - gradatii imprimate pe ambele parti*
- *clasa de precizie III*





UNIOR

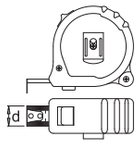
	m	d				
609365	2	16	125	1E	10	**25.10**

710R

Rulete

- *carcasa palstic din doua materiale*
- *cu blocare si bratara de prindere*





UNIOR

	m	ft	d				
612789	2	0	16	95	4A	10	**9.97**
612790	3	0	16	140	4A	10	**14.20**
612791	5	0	19	230	4A	10	**22.28**
612792	8	0	25	370	4A	10	**42.52**
612793	2	6	16	96	4A	10	**9.97**
612794	3	10	16	110	4A	10	**14.20**
612795	5	16	19	230	4A	10	**22.28**
612796	8	26	25	370	4A	10	**42.52**

Perfekt 10 N

Metru lemn fag 2 m imbinari din otel si nituri vizibile, culoare natur

- *metru pliant 2 m din lemn de fag*
- *ecologic - culoare solubila in apa*
- *finisaj de suprafata multi-strat, strat superior cu acoperire UV*
- *rezistent la abraziune si exfoliere, rezistent la intemperii*
- *conexiuni fixe de otel, lubrifiate cu unsoare*
- *capetele segmentelor frezate*
- *fitinguri din alama*
- *clasa de precizie: III*





METRIE

	m	d				
Perfect 10N	2	16	120	1E	10	**14.79**

Profi 10 W

Metru lemn fag 2 m imbinari din otel si nituri ascunse culoare alb

- *metru pliant 2 mdin lemn de fag pentru utilizare profesionala*
- *ecologic - culoare solubila in apa, finisaj de suprafata multi-strat, strat superior cu acoperire UV*
- *rezistent la abraziune si exfoliere*
- *rezistent la intemperii*
- *nituri ascunse, conexiuni de otel de arc*
- *capetele segmentelor frezate*
- *fitinguri din alama*
- *clasa de precizie: III*
- *potrivit pentru scopuri promotionale*





METRIE

	m	d				
Profi 10W	2	16	125	1E	10	**20.65**

Block 52 Y

Metru lemn fag 2 m imbinari din otel si nituri vizibile, culoare gaben

- *metru pliant 2 m din lemn de fag*
- *ecologic - culoare solubila in apa*
- *finisaj de suprafata multi-strat, strat superior cu acoperire UV*
- *rezistent la abraziune si exfoliere*
- *rezistent la intemperii*
- *imbinari sferice ascunse din otel, lubrifiate, nituri alama*
- *capetele segmentelor frezate*
- *clasa de precizie: III*
- *potrivit pentru scopuri promotionale*





METRIE

	m	d				
Block 52 Y	2	16	125	1E	10	**17.72**

Block 71 W

Metru lemn fag 1 m imbinari din plastic si nituri vizibile otel, culoare alb

- *metru pliant 1 m din lemn de fag*
- *ecologic - culoare solubila in apa*
- *finisaj de suprafata multi-strat, strat superior cu acoperire UV*
- *rezistent la abraziune si exfoliere, rezistent la intemperii*
- *imbinari sferice ascunse, lubrifiate, din otel calit*
- *capetele segmentelor frezate*
- *clasa de precizie: III*
- *potrivit pentru scopuri promotionale*
- *articulatii plastic ascunse cu oprire peste 180°*





METRIE

	m	d				
Block 71 W	1	16	65	1E	10	**9.86**

Block 72 W

Metru lemn fag 2 m imbinari din plastic si nituri vizibile otel, culoare alb

- *metru pliant 2 m din lemn de fag*
- *ecologic - culoare solubila in apa*
- *finisaj de suprafata multi-strat, strat superior cu acoperire UV*
- *rezistent la abraziune si exfoliere, rezistent la intemperii*
- *imbinari sferice ascunse, lubrifiate, din otel calit*
- *capetele segmentelor frezate*
- *clasa de precizie: III*
- *potrivit pentru scopuri promotionale*
- *articulatii plastic ascunse cu oprire peste 180°*





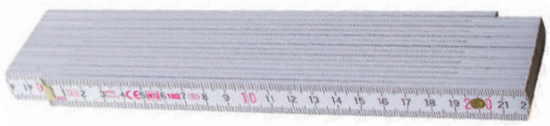
METRIE

	m	d				
Block 72 W	2	16	125	1E	10	**16.33**

Block 73 W

Metru lemn fag 3 m imbinari din plastic si nituri vizibile otel, culoare alb

- *metru pliant 3 m din lemn de fag*
- *ecologic - culoare solubila in apa*
- *finisaj de suprafata multi-strat, strat superior cu acoperire UV*
- *rezistent la abraziune si exfoliere, rezistent la intemperii*
- *imbinari sferice ascunse, lubrifiate, din otel calit*
- *capetele segmentelor frezate*
- *clasa de precizie: III*
- *potrivit pentru scopuri promotionale*
- *articulatii plastic ascunse cu oprire peste 180°*





METRIE

	m	d				
Block 73 W	3	16	190	1E	10	**44.84**

Slimboy HB

Metru lemn carpen 2 m imbinari din otel si nituri ascunse culoare natur

- *metru pliant din lemn selectionat de carpen*
- *finisaj de suprafata multi-strat, strat superior cu acoperire UV*
- *rezistent la abraziune si exfoliere*
- *rezistent la intemperii*
- *nituri ascunse, conexiuni de otel de arc*
- *clasa de precizie: III*





METRIE

	m	d				
Slimboy HB	2	16	125	1E	10	**36.68**

407

Dispozitiv de trasare cu maner din lemn

- *varf cu carbura*



DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
407	6	-	-	1	**87.39**

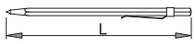
1279

Ac trasat / punctator, tip TCT

- *confectionat din otel de calitate*
- *echipat cu clip de buzunar*
- *cu varful confectionat din otel aliat de calitate care asigura o viata indelungata pe diferite suprafete dure.*



UNIOR



	Dimensiune	Lungime totala	Ambalare	
617692	140	140	1	**20.92**

U8000001

Ac trasat / punctator, tip TCT

- *corp hexagonal*



USH GERMANY

Made in Germany



	Dimensiune	Lungime totala	Ambalare	
U8000001	140	140	1 (F*)	**13.87**

403

Ac de trasat cu varf din carbura

- *cu sectiune hexagonala 6 mm*



DIAGER

Made in Germany



	Dimensiune	Lungime activa	Lungime totala	Ambalare	
403	6	-	140	1	**41.18**

9600

Ac de trasat cu varf din carbura

- *cu varf de trasare din carbura si clip*



BOHRCRAFT



	Dimensiune	Lungime totala	Ambalare	
96001500140	140	140	1	**14.64**

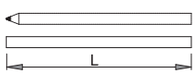
1299

Creion de tamplarie, set de 10 piese

- *confectionat din lemn de calitate*
- *grafit dur HB*



UNIOR

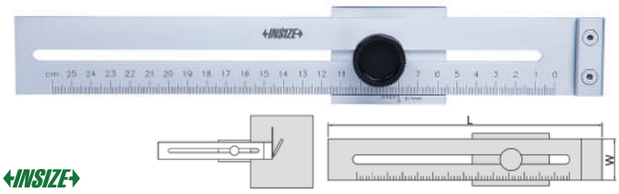


	Dimensiune	Lungime totala	Ambalare	
617724	180	180	10	**23.40**

7113

Rigla de marcaj

- *material: otel carbon de scule, tratat termic*
- *acoperire cromare satinata*
- *cu surub de blocare a cursorului*



INSIZE

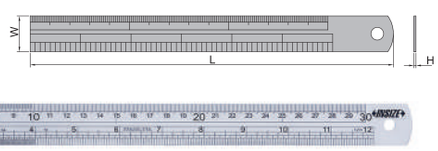
	Dimensiuni	Gradatie	Acuratete	L	W	
7120-200A	0-200 mm	0.1 mm	±0.1 mm	250	40	**203,89**
7120-250A	0-250 mm	0.1 mm	±0.1 mm	300	40	**233,02**
7120-300A	0-300 mm	0.1 mm	±0.1 mm	350	40	**258,13**

7110

Rigla semiflexibila

- *gradatii: 0.5 mm, 1 mm, 1/32", 1/16"*
- *semi-flexibila*
- *material: otel inoxidabil*

BASIC MODEL



INSIZE

	Dimensiune	Acuratete	L	W	H	
7110-150	150 mm	±0.08 mm	170	18	1	**9,84**
7110-200	200 mm	±0.08 mm	220	18	1	**11,85**
7110-300	300 mm	±0.11 mm	330	25	1	**18,18**
7110-500	500 mm	±0.14 mm	530	30	1.2	**40,78**
7110-600	600 mm	±0.15 mm	630	30	1.2	**46,81**
7110-1000	1000 mm	±0.20 mm	1040	32	1.5	**93,31**
7110-1200	1200 mm	±0.24 mm	1240	35	1.8	**176,77**
7110-1500	1500 mm	±0.35 mm	1550	38	1.8	**230,01**
7110-2000	2000 mm	±0.45 mm	2065	40	2.0	**339,49**

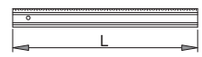
1280

Rigla gradata

- *confectionata din aluminiu acoperit argintiu profilat de sectiune 60 x 5 mm cu fateta*
- *cu gradatii pe o partre in mm*



UNIOR

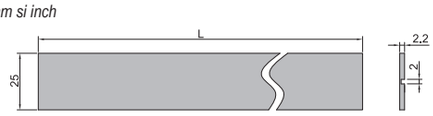


	Dimensiune		
617704	500 mm	321	**75.45**
617707	1000 mm	641	**115.58**

7113

Rigla rigida din otel

- *gradatie pe ambele laturi - mm si inch*
- *acoperire cromare satinata*
- *rigida*



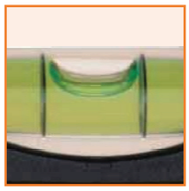


INSIZE

	Dimensiune	Acuratete	L	
7113-300A	300 mm	±0.15 mm	300	**110,48**



Efect lupa
De trei ori mai mare decat o bula normala.



Inele metalice
Inalterabile. Imbunatatesc citirea in pozitie rasturnata.



Fiola durabila
Antisoc.



Se pot vedea in intuneric
Au o banda fotoluminiscenta sub fiola.



Profil foarte robust
Previne deformarile in cadere. Capace antisoc.



Magneti in interior
Suprafata de nivelare se mentine intotdeauna in stare perfecta.

Profunda specializare a Kappa in domeniul fabricării de nivele de inalta calitate permite oferirea de produse cu un nivel ridicat de randament, cu un raport calitate-pret excelent. Technologia avanseaza si odata cu ea, avansează si procesul de fabricatie a instrumentelor noastre. Combinam cele mai avansate tehnologii; pe de o parte vederea artificiala inlocuieste ochiul uman si, pe de alta parte, sudura este inlocuita de ultrasunete. Prin aceasta combinatie, si impreuna cu materialele de cea mai buna calitate, am atins perfectiunea in domeniul nivelelor.



kappa by JAR

ANTISOC

MAGNETI DE NEODIM

CITIRE USOARA

LICHID INALTERABIL

LUMINEAZA IN INTUNERIC

NIVELARE PERFECTA

PROTECTIE ELECTROSTATICA

040E

Nivela aluminiu clasica ProLevel

- *clasa de precizie 0,5 mm/m*
- *sectiune dreptunghiulara*
- *protectie electrostatica*
- *cu doua bule (verticala si orizontala)*
- *cu bule fosforescente*
- *bule cu efect de lupa*
- *bule cu lichid nealterabil*
- *bule antisoc*
- *bule cu inscriptionare aplicata (metalica)*
- *cu capate antisoc drepte*



kappa by JAR

	Dimensiune	Ambalare	
040E030	300 mm	1	81.04
040E040	400 mm	1	86.54
040E050	500 mm	1	100.44
040E060	600 mm	1	101.39
040E080	800 mm	1	118.06
040E100	1000 mm	1	131.23
040E120	1200 mm	1	155.19
040E150	1500 mm	1	185.12
040E180	1800 mm	1	208.11
040E200	2000 mm	1	219.11

040EM

Nivela aluminiu clasica ProLevel cu magnet

- *clasa de precizie 0,5 mm/m*
- *sectiune dreptunghiulara*
- *cu magnet*
- *cu doua bule (verticala si orizontala)*
- *cu bule fosforescente*
- *bule cu efect de lupa*
- *bule cu lichid nealterabil*
- *bule antisoc*
- *bule cu inscriptionare aplicata (metalica)*
- *cu capate antisoc drepte*



kappa by JAR

	Dimensiune	Ambalare	
040EM40	400 mm	1	141.41
040EM50	500 mm	1	150.24
040EM60	600 mm	1	163.08
040EM80	800 mm	1	171.59
040EM100	1000 mm	1	215.44
040EM120	1200 mm	1	241.46
040EM150	1500 mm	1	288.65
040EM180	1800 mm	1	305.66
040EM200	2000 mm	1	325.85

04MT

Nivela aluminiu profesionala Master

- *clasa de precizie 0,5 mm/m*
- *sectiune cu doua straturi rezistente la torsiune*
- *suprafata de masurare frezata*
- *protectie electrostatica*
- *cu doua bule (verticala si orizontala)*
- *cu bule fosforescente*
- *bule cu efect de lupa*
- *bule cu lichid nealterabil*
- *bule cu inscriptionare aplicata (metalica)*
- *cu capete antisoc profilate*



kappa by JAR

	Dimensiune	Ambalare	
04MT040	400 mm	1	223.46
04MT050	500 mm	1	244.71
04MT060	600 mm	1	267.92
04MT080	800 mm	1	313.69
04MT100	1000 mm	1	356.44

04NAM

Nivela aluminiu tehnica cu magnet

- *clasa de precizie 0,5 mm/m*
- *sectiune dreptunghiulara*
- *cu magnet*
- *cu doua bule (verticala si orizontala)*
- *cu bule fosforescente*
- *bule cu efect de lupa*
- *bule cu lichid nealterabil*
- *bule antisoc*
- *bule cu inscriptionare aplicata (metalica)*
- *cu capete antisoc profilate*



kappa by JAR

	Dimensiune	Ambalare	
04NAM40	400 mm	1	**169.69**
04NAM50	500 mm	1	**180.29**
04NAM60	600 mm	1	**195.70**
04NAM80	800 mm	1	**205.91**
04NAM100	1000 mm	1	**258.53**

04NA

Nivela aluminiu tehnica

- *clasa de precizie 0,5 mm/m*
- *sectiune dreptunghiulara*
- *protectie electrostatica*
- *cu doua bule (verticala si orizontala)*
- *cu bule fosforescente*
- *bule cu efect de lupa*
- *bule cu lichid nealterabil*
- *bule antisoc*
- *bule cu inscriptionare aplicata (metalica)*
- *cu capete antisoc profilate*



kappa by JAR

	Dimensiune	Ambalare	
04NA040	400 mm	1	**103.85**
04NA050	500 mm	1	**120.53**
04NA060	600 mm	1	**121.66**
04NA080	800 mm	1	**141.67**
04NA100	1000 mm	1	**157.48**

042AA

Nivela zidarie INDAR

- *clasa de precizie 0,5 mm/m*
- *sectiune profilata*
- *protectie electrostatica*
- *cu doua bule (verticala si orizontala)*
- *cu bule fosforescente*
- *bule cu efect de lupa*
- *bule cu lichid nealterabil*
- *bule antisoc*
- *bule cu inscriptionare aplicata (metalica)*
- *cu capate antisoc drepte*



kappa by JAR

	Dimensiune	Ambalare	
042AA40	400 mm	1	**134.13**
042AA50	500 mm	1	**153.62**
042AA60	600 mm	1	**150.63**

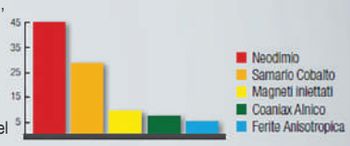
CARE ESTE MOTIVUL PENTRU CARE NIVELA **KAPPA** ESTE

MAI USOR DE FOLOSIT?

Posibilitatea de **A CITI RAPID SI EXACT.** Fiolele Kappa au cel mai mare efect de lupa de pe piata.
Cu fiolele Kappa se evita efectul de dublare a bulei.
Compara singur!



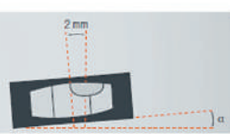
Magneti confectionati dintr-un material special, **NEODIM**, fac ca produsele sa fie cele mai avansate din punct de vedere tehnologic care se gasesc pe piata de profil. Magnetii neodim au o putere **DE 10 ORI MAI MARE** decat materialele magnetice traditionale. Magnetii neodim ai niveleleor Kappa sunt pozitionati in interiorul profilului, suprafata nivelei ramanand intotdeauna perfect plata, astfel prelungindu-se perioada de viata a magnetului!



Vizibilitatea este imbunatattita datorita **BENZII LUMINISCENTE** chiar si in conditii de luminozitate reduse! Nu uitati sa fiti intotdeauna prietenosi cu natura!



Cum **REACTIONEAZA BULA** cand se modifica pozitia planului? Sensibilitatea fiolelor noastre determina, la fiecare 36 min 11.5 sec ca bula **SA SE MISTE 2 MM**.



Capacele antisoc ofera **REZISTENTA PERFECTA** pentru a absorbi orice impact. Kappa produce nivele cu tot cu capetele antisoc ceea ce inseamna ca si in urma unor impacturi puternice probabilitatea ca ele sa ramana intacte este foarte mare.

042AM

Nivela zidarie cu magnet INDAR

- *clasa de precizie 0,5 mm/m*
- *sectiune profilata*
- *cu magnet*
- *cu doua bule (verticala si orizontala)*
- *cu bule fosforescente*
- *bule cu efect de lupa*
- *bule cu lichid nealterabil*
- *bule antisoc*
- *bule cu inscriptionare aplicata (metalica)*
- *cu capate antisoc drepte*



kappa by JAR

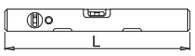
	Dimensiune	Ambalare	
042AM40	400 mm	1	**188.21**
042AM50	500 mm	1	**194.84**
042AM60	600 mm	1	**204.74**

1250

Nivele de aluminiu

- *profil de aluminiu de calitate, dimensiune 48x22 mm*
- *eloxat argintiu*
- *prevazute cu bule rezistenta la soc*
- *precizia de 0.5 mm/m*
- *acuratete prin testare electronica*





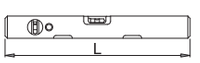
	L				
610716	300	220	1K	10	**62.41**
610717	400	270	1K	10	**71.12**
610718	500	340	1K	10	**81.19**
610719	600	380	1K	10	**84.20**
610720	800	510	1K	10	**97.73**
610721	1000	600	1K	10	**111.30**
610722	1200	680	1K	10	**133.34**
610723	1500	900	1K	10	**159.12**
610724	2000	1200	1K	10	**200.42**

1252

Nivele de aluminiu cu bula de aer si cu magnet

- *profil de aluminiu de calitate, dimensiune 48x22 mm*
- *eloxat argintiu*
- *prevazute cu bule rezistenta la soc*
- *precizia de 0.5 mm/m*
- *acuratete prin testare electronica*
- *suprafata de masurare este echipata cu doi magneti*





	L				
610725	400	530	1K	10	**122.39**
610726	500	580	1K	10	**130.32**
610727	600	640	1K	10	**142.53**
610728	800	820	1K	10	**148.08**
610729	1000	1080	1K	10	**219.10**

19003

Nivela Boa cu trei muchii Tri-Level™

- *conceptul inovator Tri-Level al BOA se bazeaza pe un profil de sectiune de inalta stabilitate*
- *latimea bazei "V" si centrul de greutate redus o mentin stabila in conditiile meteorologice cele mai nefavorabile si permite mentinerea mainilor libere in timpul lucrarilor la conducte si structuri din otel*
- *profilele de colt pot fi verificate si ajustate usor (simultan)*
- *fiecare nivel Tri-Level este dotat cu bule de tip bloc, indestructibile.*
- *manerul incorporat permite o manevrare usoara, iar atunci cand este folosit ca o linie dreapta de taiere, si este proiectat pentru a mentine lama cutitului in siguranta deplina, departe de degete*
- *profilul din aluminiu de 1,8 mm face din Tri-Level BOA una dintre cele mai rigide si robuste nivele de pe piata*
- *nivela permite masurarea, taierea si ruperea gips-cartonul (Dry-Wall) intr-o singura miscare usoara, deoarece baza stabila si profilul de 1,8 mm este suficient de puternic pentru a realiza presiunea necesara*
- *clasa de precizie precizie de 0.5 mm/m*
- *scala de masurare dubla in mm si inch*







	Dimensiune	Ambalare	
19003/40	400 mm (16")	1	**179,61**
19003/60	600 mm (24")	1	**257,65**
19003/90	900 mm (36")	1	**308,73**
19003/120	1200 mm (48")	1	**383,74**
19003/180	1800 mm (72")	1	**576,32**

19003

Stand nivele Boa cu trei muchii Tri-Level™



	Dimensiune	Ambalare	
19003/Display	15 piese **19003** (3x400, 3x600, 3x900, 3x1200, 3x1800)	1	**5118,15**

1272

Dreptare de zidarie

- *profil special de aluminiu*
- *cu doua manere si doua bule*
- *utilizat pentru lucrari de fatade, pavaje,suprafete denivelate, in primul rand pentru lucrari in constructii mai usoare si mai precise.*





	L	B	A				
610751	1000	100	18	900	1K	10	**183.25**
610752	1500	100	18	1350	1K	10	**212.19**
610753	2000	100	18	1800	1K	10	**241.04**
610754	2500	100	18	2300	1K	10	**273.00**
610755	3000	100	18	2700	1K	5	**313.52**
610756	4000	100	18	3600	1K	5	**394.51**

1290/5

Fir cu plumb

- *confectionat din otel de calitate*
- *cu sfoara de 4 metri lungime*

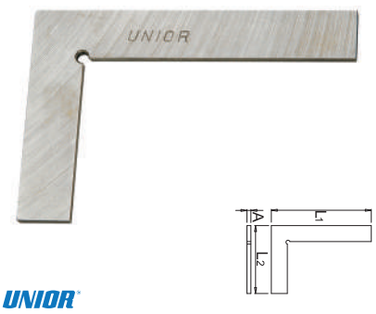


	Dimensiune	Lungime totala	Ambalare	
617725	170 g	4 m	1	**69.56**

1260/7

Echere

- *mateial:confectionat din otel*
- *masuara suprafete de asezare*
- *acuratete: 0,01425° = 0,25mm/m*

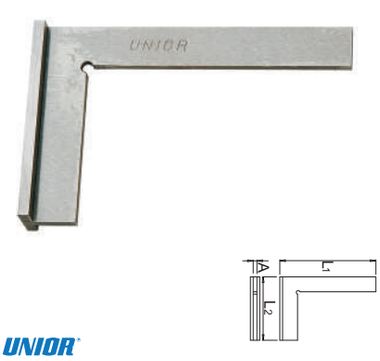


	L1	L2	A				
610730	125	85	5	140	1E	10	**58.47**
610731	150	100	5	205	1E	10	**68.64**
610732	200	130	5	385	1E	10	**73.36**
610733	250	165	5	500	1E	10	**93.59**
610734	300	200	5	575	1E	10	**103.71**

1260/7A

Echere cu talpa

- *mateial:confectionat din otel*
- *masuara suprafete de asezare*
- *acuratete: 0,01425° = 0,25mm/m*
- *talpa este prinsa de bratul scurt*



	L1	L2	A				
610736	150	100	5	205	1E	10	**124.53**
610738	250	165	5	500	1E	10	**167.68**
610739	300	200	5	575	1E	10	**180.96**

40-1

Raportor de lemn

- *se utilizeaza la copierea de unghiuri si transferul lor prin copiere pe semifabricate de lemn*

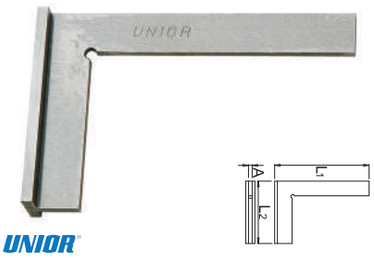


	Dim.	L	H	I	G	
40-1	0°-340°	350	50	24	250	**47.62**

1262/5A

Echer de tamplarie cu talpa

- *mateial:confectionat din otel*
- *acoperire:zincare*
- *precizie: +/- 0,0285° = 0,5mm/m*
- *talpa este prinsa de bratul scurt*

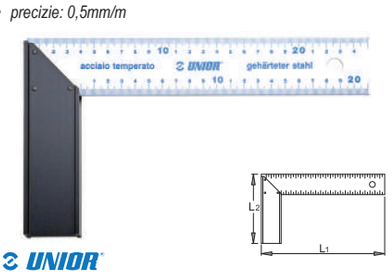


	L1	L2	A				
617154	125	85	5	140	1E	10	**71.65**
617155	150	100	5	205	1E	10	**85.86**
617156	200	130	5	385	1E	10	**98.90**
617157	250	160	5	500	1E	10	**116.60**
617158	300	175	5	470	1E	10	**128.37**

1263

Echer

- *latura de masurare confectionata din otel rapid tratat termic, 40×1,2mm, cu gradatii - mm*
- *suportul talpii este confectionat din profil de aluminiu acoperit negru , forma- I 40×14mm*
- *precizie: 0,5mm/m*



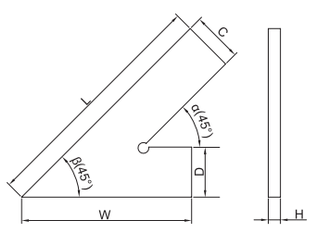
	L1	L2				
617693	250	135	205	1E	10	**53.51**
617694	300	135	225	1E	10	**54.68**
617695	350	190	300	1E	10	**58.81**
617696	400	190	315	1E	10	**60.47**
617697	500	210	370	1E	10	**67.03**

4745

Echer la 45º

- *material: otel inoxidabil, tratat termic*





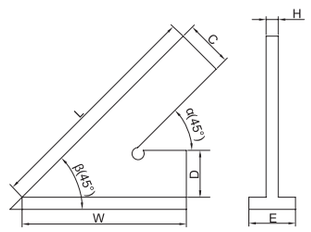
	Dimensiune	interior	exterior	C	D	H	
4745-1100	100x70	27 µm	30 µm	20	20	5	**168,74**
4745-1120	120x80	29 µm	32 µm	20	20	5	**168,74**
4745-1150	150x100	32 µm	35 µm	20	20	5	**204,90**
4745-1200	200x130	36 µm	40 µm	20	25	5	**330,45**

4747

Echer la 45º cu talpa

- *material: otel inoxidabil, tratat termic*





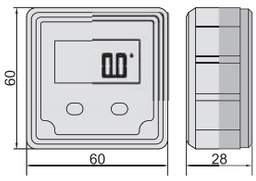
	Dimensiune	interior	exterior	C	D	H	
4747-100	100x70	27 µm	31 µm	20	20	5	**244,07**
4747-120	120x80	29 µm	33 µm	20	20	5	**278,22**
4747-150	150x100	32 µm	36 µm	20	20	5	**305,34**
4747-200	200x130	36 µm	41 µm	20	25	5	**427,87**

2170

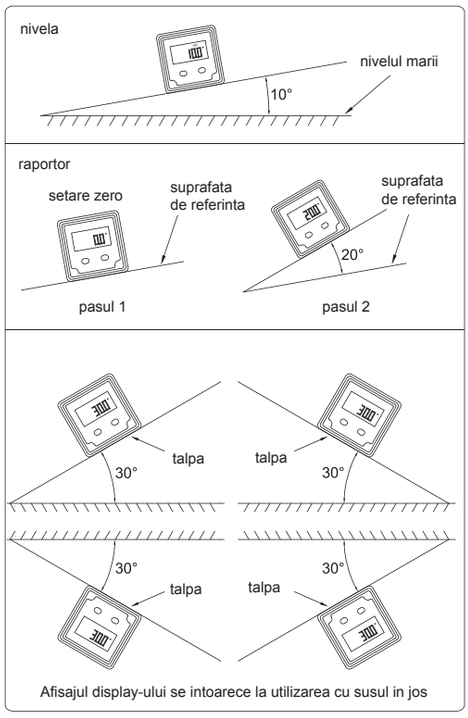
Nivela si raportor digital

- *rama din aluminiu*
- *baza magnetica*
- *afisajul se intoarce, atunci cand partea de jos este indreptata in sus*
- *lumina de fundal este activata automat atunci cand produsul este in uz si se intrerupe automat daca nu este folosita 15 minute*
- *nivelul este setat permanent de cip, setarea zero nu este necesara atunci cand bateria este inlocuita*
- *butoane: on/off, zero, masurari absolute si incrementale*
- *o baterie AAA*
- *se inchide automat daca nu este folosita 5 minute*





BACKLIGHT | ABSOLUTE LEVEL | MAGNETIC BOTTOM | DISPLAY FLIPS OVER WHEN THE BOTTOM FACES UP



Afisajul display-ului se intoarece la utilizarea cu susul in jos

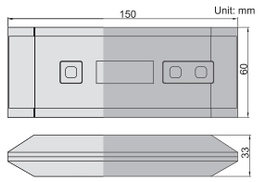
INSIZE

	Dimensiune	Acuratete	Rezolutie	
2170-1	4 x 90°	±0.1 mm	0.1° (=1.745 mm/m)	**361,58**

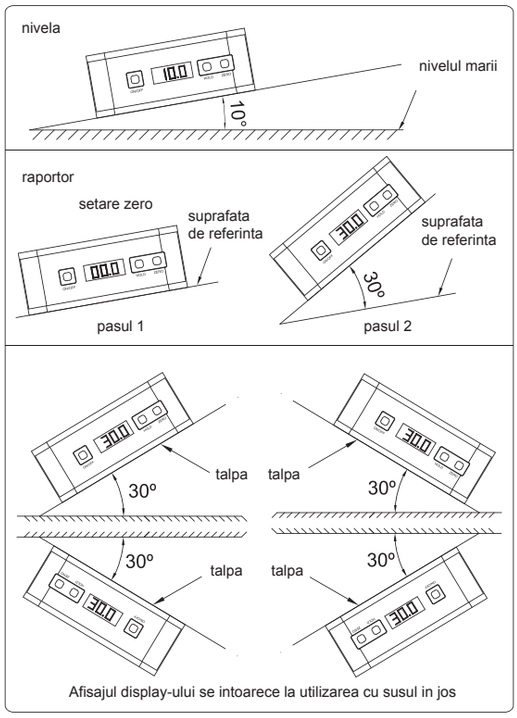
2173

Nivela si raportor digital

- *rama din aluminiu*
- *baza magnetica cu canal in V pentru suprafete cilindrice*
- *setarea zero poate fi făcută pe suprafețe plane*
- *butoane: ON/ OFF, ZERO, HOLD (sa tina minte valoarea masurata)*
- *o baterie CR 2032*
- *se inchide automat daca nu este folosita*







Afisajul display-ului se intoarece la utilizarea cu susul in jos

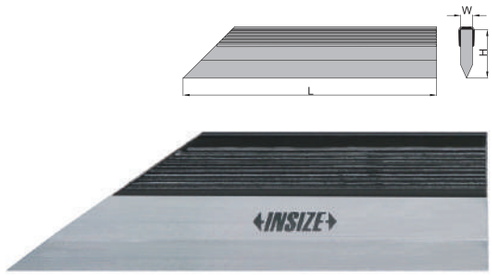
INSIZE

	Dimensiune	Acuratete	Rezolutie	
2173	4 x 90°	±0.1 mm	0.1° (=1.745 mm/m)	**845,70**

4700

Rigla planeitate

- *in conformitate cu DIN 874*
- *acoperire cromare satinata*
- *cu muchie tesita*
- *material: otel inoxidabil, tratat termic*



INSIZE

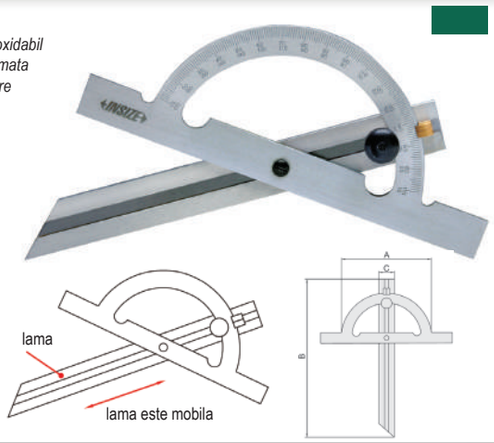
	Dimensiune	Acuratete	W	H	
4700-150	150 mm	2.6 µm	6	30	**194,85**
4700-200	200 mm	2.8 µm	6	30	**223,98**
4700-300	300 mm	3.2 µm	8	40	**423,86**
4700-400	400 mm	3.2 µm	8	40	**999,38**

In gama producatorului exista si alte lungimi; lungimea maxima 500 mm

4797

Raportor

- *material: otel inoxidabil*
- *scala satina cromata*
- *cu surub de fixare*
- *lama mobila*



INSIZE

	Dimensiune	Scala	Gradatii	Acuratete	C	
4797-150	150x300 mm	10□-170□	1□	± 0.3□	22	**303,33**
4797-200	200x400 mm	10□-170□	1□	± 0.3□	24	**378,66**
4797-250	250x500 mm	10□-170□	1□	± 0.3□	28	**569,49**
4797-300	300x600 mm	10□-170□	1□	± 0.3□	32	**700,07**

4799

Raportor

- *material: otel inoxidabil*
- *scala satina cromata*
- *cu surub de fixare*



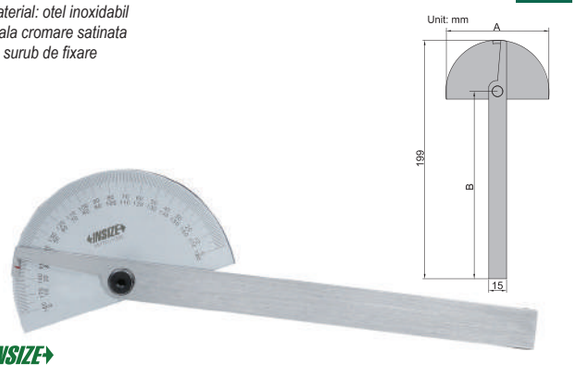
INSIZE

	Dimensiune	Scala	Gradatii	Acuratete	L	C	
4799-180	80x120 mm	0□-180□	1□	± 0.3□	168	11	**164,72**
4799-1120	120x150 mm	0□-180□	1□	± 0.3□	220	14	**181,80**
4799-1150	150x200 mm	0□-180□	1□	± 0.3□	285	16	**242,06**
4799-1200	200x300 mm	0□-180□	1□	± 0.3□	413	20	**312,37**
4799-1300	300x500 mm	0□-180□	1□	± 0.3□	675	30	**516,26**

4780

Raportor

- *material: otel inoxidabil*
- *scala cromare satinata*
- *cu surub de fixare*



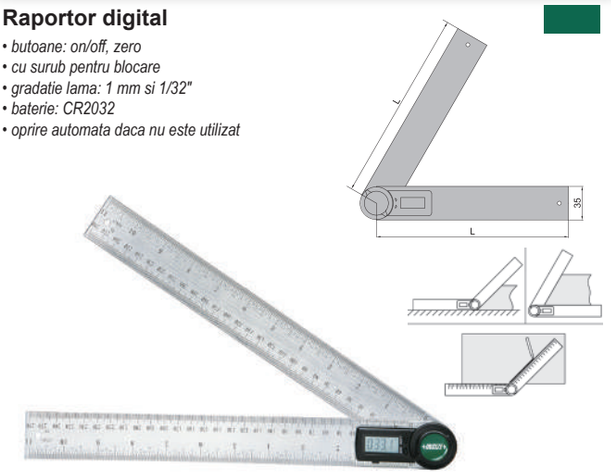
INSIZE

	Dimensiune	Scala	Gradatii	Acuratete	
4780-85	85x150 mm	0□-180□	1□	± 0.3□	**90,20**

2176

Raportor digital

- *butoane: on/off, zero*
- *cu surub pentru blocare*
- *gradatie lama: 1 mm si 1/32"*
- *baterie: CR2032*
- *oprire automata daca nu este utilizat*



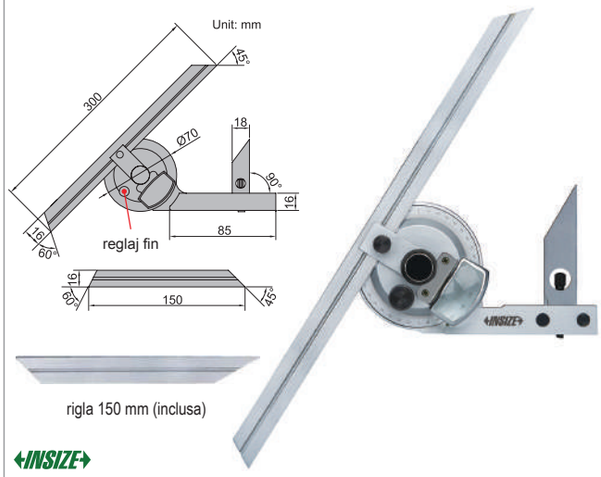
INSIZE

	Dimensiune	Scala	Rezolutie	Acuratete	
2176-200	200 mm	0□-360□	0.1□	± 0.3□	**214,94**
2176-300	300 mm	0□-360□	0.1□	± 0.3□	**232,02**

2372

Raportor universal cu lupa

- *rigla paralela culiseaza liber si se roteste pentru a se aseza pe supafata al carui unghi trebuie masurat, apoi se blocheaza*
- *se livreaza cu rigla de 150 mm*
- *material: otel inoxidabil*



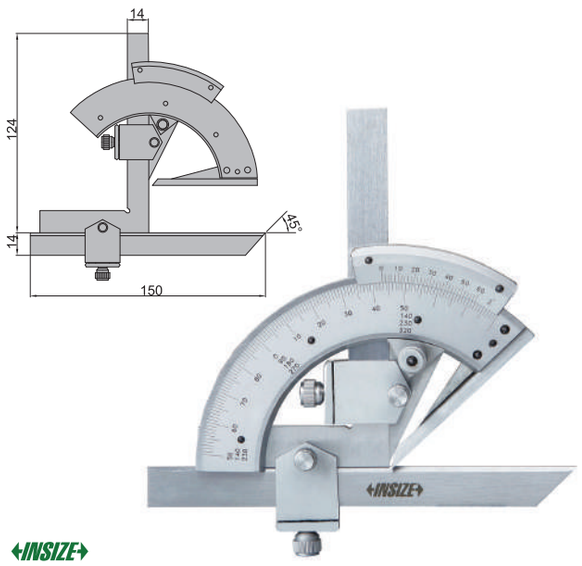
INSIZE

	Scala	Gradatie	Acuratete	
2372-360	0°-360°	5'	±5'	**738,23**

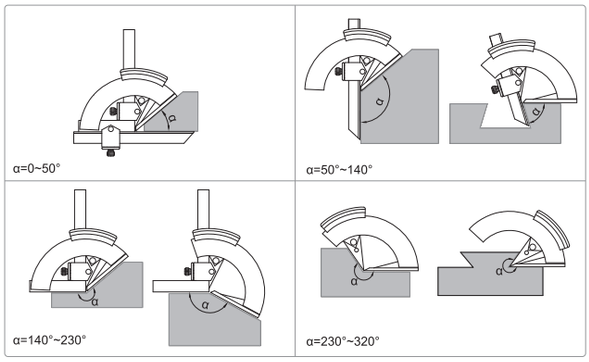
2374

Raportor universal

- *material: otel inoxidabil*
- *acoperire cromare satinata*



INSIZE

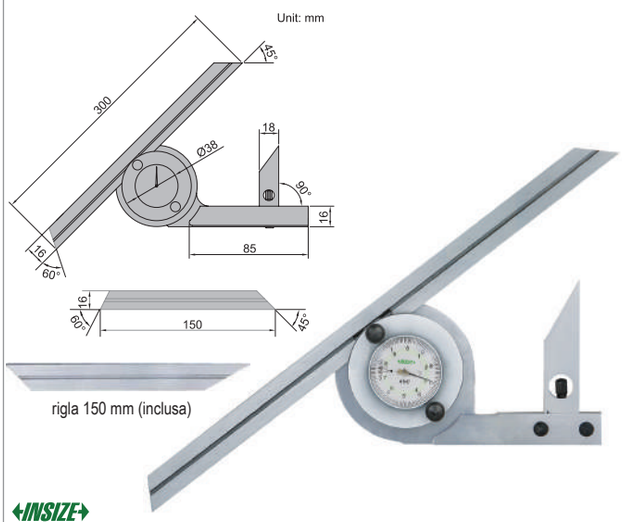


	Scala	Gradatie	Acuratete	
2374-320	0-320°	2'	±2'	**656,88**

2373

Raportor universal cu cardan 0□-360□

- *rigla paralela culiseaza liber si se roteste pentru a se aseza pe supafata al carui unghi trebuie masurat, apoi se blocheaza*
- *se poate prinde inclema (cod 2372-CLAMP) dispozitivului de trasat 1156 sau 1351*
- *material: otel inoxidabil*



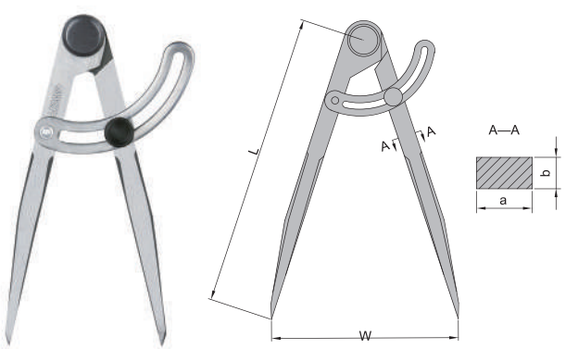
INSIZE

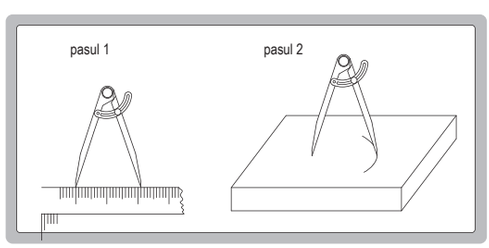
	Scala	Gradatie	Acuratete	
2373-360	0°-360°	5'	±5'	**961,21**

7247

Compas mecanic cu aripa de blocare

- *material: otel carbon de scule*
- *varfuri tratate*





INSIZE

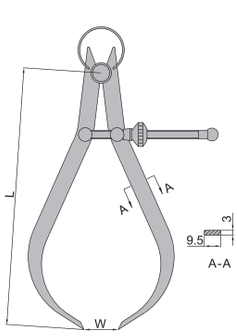
	Dimensiune	Deschidere	a	b	
7247-150	150 mm	0-140 mm	8.5	7	**57,35**
7247-200	200 mm	0-190 mm	10	7	**70,01**
7247-300	300 mm	0-290 mm	12	7	**106,47**

7262

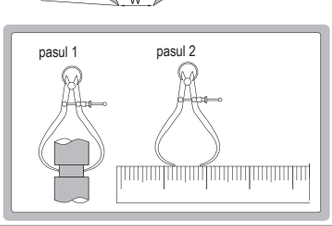
Compas de exterior cu inel si surub de reglare

- *material: otel carbon de scule*
- *varfuri tratate termic*









INSIZE

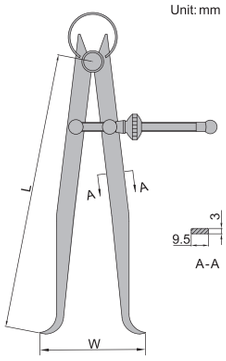
	Dimensiune	Tip	Deschidere	
7262-150	155 mm	A	0-140 mm	**83,06**
7262-200	210 mm	A	0-210 mm	**94,01**
7262-250	265 mm	A	0-270 mm	**131,58**
7262-300	310 mm	A	0-320 mm	**149,66**

7261

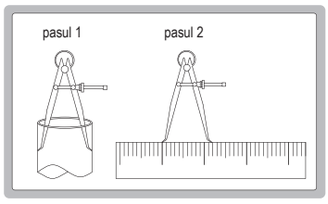
Compas de interior cu inel si surub de reglar

- *material: otel carbon de scule*
- *varfuri tratate*









INSIZE

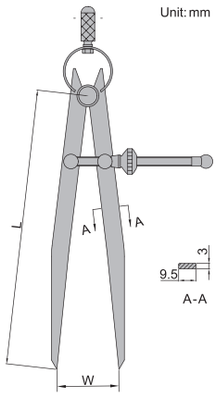
	Dimensiune	Tip	Deschidere	
7261-150	150 mm	A	15-140 mm	**82,86**
7261-200	200 mm	A	18-190 mm	**93,71**
7261-250	250 mm	A	20-240 mm	**123,54**
7261-300	300 mm	A	20-290 mm	**137,60**

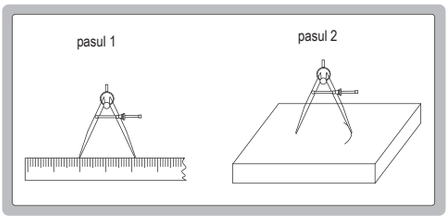
7260

Compas de trasat cu inel si surub de reglare

- *material: otel carbon de scule*
- *varfuri tratate*







INSIZE

	Dimensiune	Tip	Deschidere	
7260-150	150 mm	A	0-150 mm	**82,96**
7260-200	200 mm	A	0-210 mm	**93,81**
7260-250	245 mm	A	0-260 mm	**123,54**
7260-300	300 mm	B	0-320 mm	**137,60**

1150

Dispozitiv digital de trasat

- *rezolutie: 0.01 mm/0.0005"*
- *butoane: on/off, zero, mm/inch, ABS/INC, data hold, TOL, set*
- *ABS/INC este pentru măsurare absolută și incrementală*
- *TOL - toleranta masuratorii*
- *trasator cu carbura*
- *material: otel inoxidabil (in afara de baza)*
- *baterii: SR44 sau LR44*
- *export date*
- *dotata cu clema de prindere*

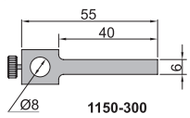
DATA OUTPUT



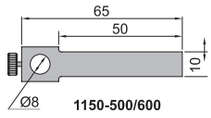
Clema de prindere



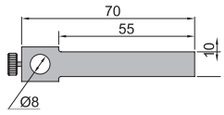
Unit: mm



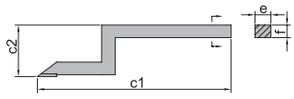
1150-300

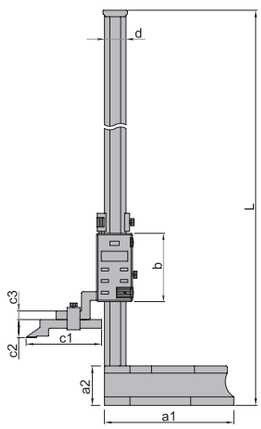


1150-500/600

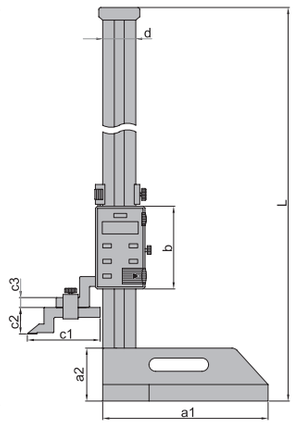


Trasator cu carbura





tip A



tip B

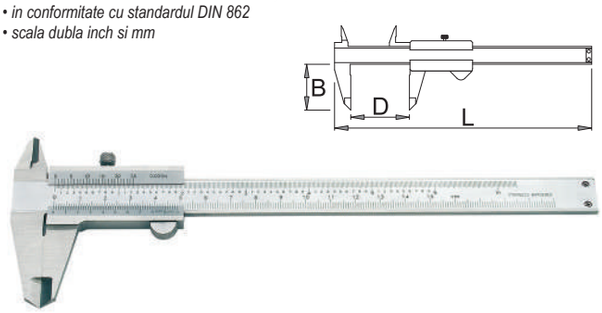
INSIZE

	Scala	Tip	Acuratete	L	
1150-300	0-300 mm	A	± 0.04 mm	470	**2.350,30**
1150-500	0-500 mm	A	± 0.05 mm	720	**3.465,18**
1150-600	0-600 mm	A	± 0.05 mm	820	**4.509,76**
1150-1000	0-1000 mm	B	± 0.07 mm	1275	**8.758,37**

271

Subler mecanic de exterior, interior, cu tije de adancime

- *precizie: 0,02mm/0,001"*
- *functii: masurarea dimensiunilor interioare, exterioare, adancimi si intervale*
- *in conformitate cu standardul DIN 862*
- *scala dubla inch si mm*



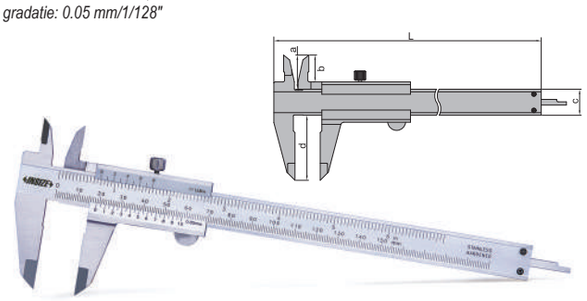
UNIOR

	Scala	Acuratete	L	b	
612035	0-150 mm	± 0.02 mm	235	40	**134.16**

1205

Subler mecanic de exterior, interior, cu tije de adancime

- *in conformitate cu DIN 862*
- *material: otel inoxidabil, cromare satinata*
- *gradatie: 0.05 mm/1/128"*



INSIZE

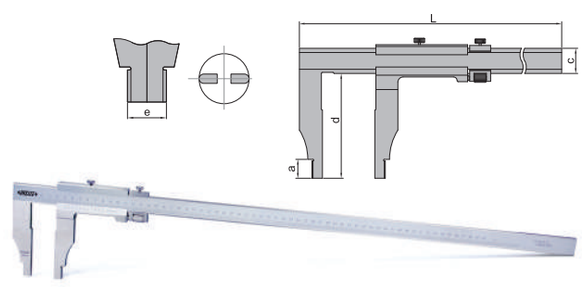
	Scala	Acuratete	L	a	b	c	d	
1205-150S	0-150 mm	± 0.05 mm	235	20.5	15.5	16	40	**171,31**
1205-200S	0-200 mm	± 0.05 mm	290	23.5	19	16	50	**300,32**
1205-250S	0-250 mm	± 0.05 mm	364	27.5	22	20	64	**696,05**
1205-300S	0-300 mm	± 0.05 mm	414	27.5	22	20	64	**602,64**

Sublerele se pot aduce si cu gradatie 0.02 mm/0,001"

1208

Subler mecanic de exterior-interior, cu reglaj fin

- *cu reglaj fin*
- *material: otel inoxidabil, cromare satinata*
- *gradatie: 0.05 mm*



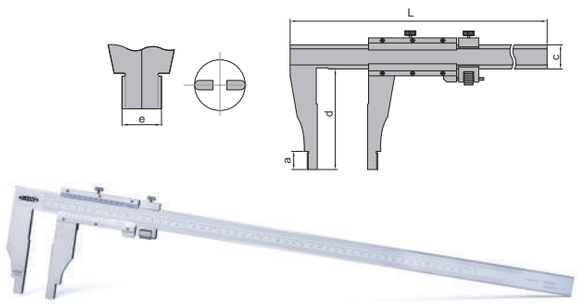
INSIZE

	Scala	Acuratete	a	c	d	e	L	
1208-394	0-300 mm	± 0.07 mm	10	20	90	10	410	**983,31**
1208-324	0-300 mm	± 0.07 mm	18	24	150	20	410	**1.657,26**
1208-524	0-500 mm	± 0.07 mm	18	24	100	20	670	**1.727,57**

1214

Subler mecanic de exterior-interior, cu reglaj fin

- *cu reglaj fin*
- *material: otel inoxidabil, cromare satinata*
- *gradatie: 0.02 mm*



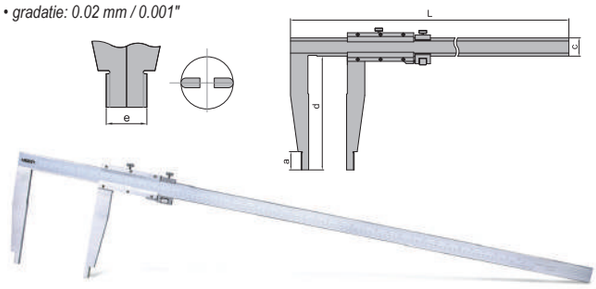
INSIZE

	Scala	Acuratete	a	c	e	L	d	
1214-450	0-450 mm	± 0.05 mm	18	24	20	650	100	**1.255,50**
1214-500	0-500 mm	± 0.05 mm	18	24	20	670	100	**1.295,68**
1214-600	0-600 mm	± 0.05 mm	18	24	20	770	100	**1.365,98**
1214-1000	0-1000 mm	± 0.08 mm	24	32	20	1216	140	**3.796,63**

1215

Subler mecanic de exterior-interior, cu varfuri lungi si reglaj fin

- *cu reglaj fin*
- *material: otel inoxidabil, cromare satinata*
- *gradatie: 0.02 mm / 0.001"*



INSIZE

	Scala	Acuratete	a	c	d	e	L	
1215-532	0-500 mm	± 0.06 mm	18	24	200	20	670	**2.350,30**
1215-822	0-800 mm	± 0.07 mm	24	32	150	20	1020	**3.625,88**
1215-1032	0-1000 mm	± 0.08 mm	24	32	200	20	1220	**5.283,14**
1215-1052	0-1000 mm	± 0.11 mm	24	42	300	20	1330	**7.924,72**

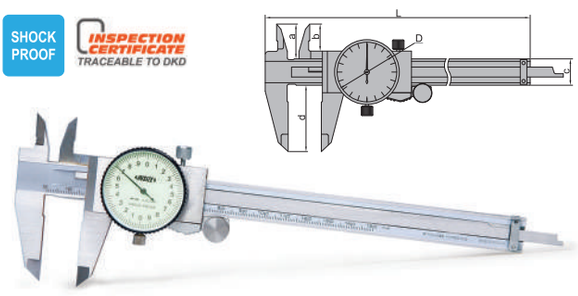
1312

Subler cu ceas, de exterior-interior

- *rezistent la soc*
- *material: otel inoxidabil*
- *gradatie: 0.02 mm*

SHOCK PROOF

INSPECTION CERTIFICATE TRACEABLE TO DKD



INSIZE

	Scala	Acuratete	L	a	b	c	d	D	
1312-150A*	0-150 mm	± 0.03 mm	235	21	16,5	16	40	Ø39	**348,53**
1312-200A*	0-200 mm	± 0.03 mm	288	24	19	16	50	Ø39	**485,13**
1312-300A*	0-300 mm	± 0.04 mm	410	28	22	20	62	Ø44,5	**859,77**

* *livrat cu certificat de inspectie producator trasabil la DKD Germany*

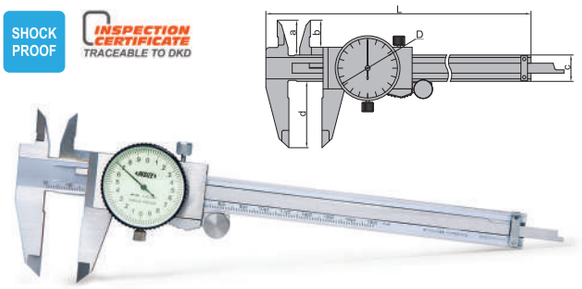
1311

Subler cu ceas, de exterior-interior

- *rezistent la soc*
- *material: otel inoxidabil*
- *gradatie: 0.01 mm*

SHOCK PROOF

INSPECTION CERTIFICATE TRACEABLE TO DKD



INSIZE

	Scala	Acuratete	L	a	b	c	d	D	
1311-150A*	0-150 mm	± 0.03 mm	235	21	16,5	16	40	Ø39	**381,67**
1311-200A*	0-200 mm	± 0.03 mm	288	24	19	16	50	Ø39	**632,77**
1311-300A*	0-300 mm	± 0.04 mm	410	28	22	20	62	Ø44,5	**988,33**

* *livrat cu certificat de inspectie producator trasabil la DKD Germany*

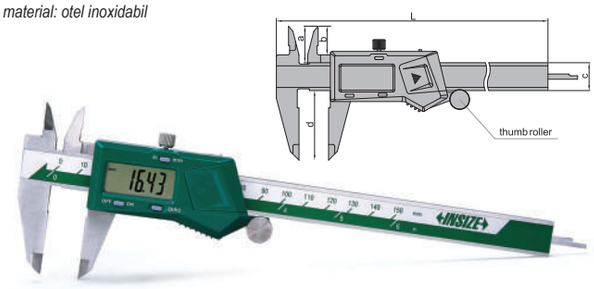
1108

Subler digital de exterior-unteior, cu tije de adancime

- *rezolutie: 0.01mm/0.0005"*
- *butoane: ON/OFF, Zero, mm/inch*
- *oprire automata daca nu este utilizat*
- *baterie: CR2032*
- *compatibil USB; iesire cablu date*
- *in conformitate cu DIN 862*
- *material: otel inoxidabil*

INSPECTION CERTIFICATE TRACEABLE TO DKD

DATA OUTPUT



INSIZE

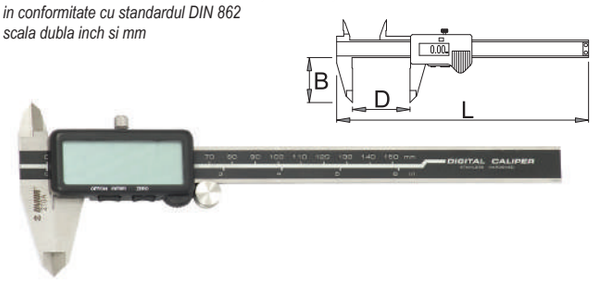
	Scala	Acuratete	L	a	b	c	d	
1108-150*	0-150 mm	± 0.02 mm	236	21	16	16	40	**266,17**
1108-200*	0-200 mm	± 0.03 mm	286	24	19	16	50	**392,72**
1108-250*	0-250 mm	± 0.03 mm	350	25	20.5	16	60	**789,46**
1108-300*	0-300 mm	± 0.03 mm	400	25	20.5	16	60	**703,08**

* *livrat cu certificat de inspectie producator trasabil la DKD Germany*

270A

Subler digital de exterior-unteior, cu tije de adancime

- *precizie: 0, 02mm/0,001"*
- *viteza de masurare:1.5m/sec*
- *functii:masurarea dimensiunilor interioare, exterioare, adancimi si intervale*
- *in conformitate cu standardul DIN 862*
- *scala dubla inch si mm*



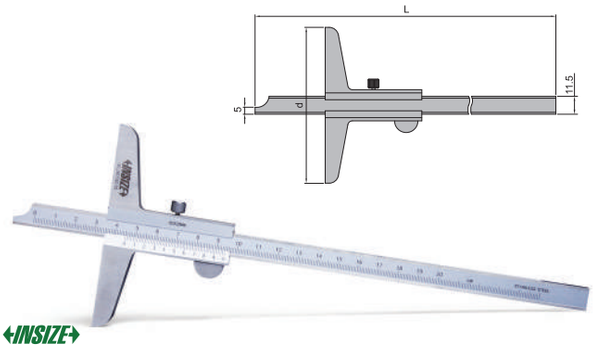
UNIOR

	Scala	Acuratete	L	b	
619881	0-150 mm	± 0.02 mm	235	40	**259.28**

1240

Subler mecanic de adancime

- *material: otel inoxidabil*
- *cromare satinata*



INSIZE

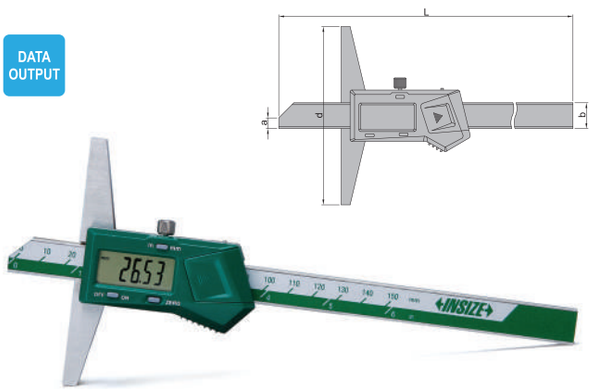
	Scala	Acuratete	L	d	
gradatie 0.02 mm					
1240-1501	0-150 mm	± 0.03 mm	245	100	**276,21**
1240-2001	0-200 mm	± 0.03 mm	282	100	**297,30**
1240-3001	0-300 mm	± 0.04 mm	382	100	**381,67**
1240-5001	0-500 mm	± 0.05 mm	585	100	**794,48**
gradatie 0.05 mm					
1240-150	0-150 mm	± 0.05 mm	245	100	**276,21**
1240-200	0-200 mm	± 0.05 mm	282	100	**297,30**
1240-300	0-300 mm	± 0.08 mm	382	100	**381,67**
1240-500	0-500 mm	± 0.09 mm	585	150	**792,47**

1141

Subler digital de adancime

- *rezolutie: 0.01mm/0.0005"*
- *material: otel inoxidabil*
- *butoane: ON/OFF, Zero, mm/inch*
- *baterie: CR2032*
- *compatibil USB*
- *in conformitate cu DIN 862*
- *oprire automata*

DATA OUTPUT



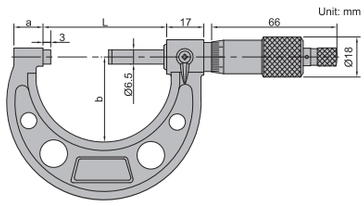
INSIZE

	Scala	Acuratete	L	a	b	d	
1141-150A	0-150 mm	± 0.03 mm	230	6	14.5	100	**453,99**
1141-200A	0-200 mm	± 0.03 mm	280	6	14.5	100	**552,42**
1141-300A	0-300 mm	± 0.03 mm	380	6	14.5	150	**1.175,15**
1141-500A	0-500 mm	± 0.05 mm	585	7	15	150	**2.400,52**

3203

Micrometru mecanic de exterior

- *gradatie: 0.01 mm*
- *suprafetele de masurare cu carbura*
- *in conformitate cu DIN 863*
- *se livreaza cu tampon de calibrare la cota minima (exceptie 0-25 mm)*





INSIZE

	Scala	Acuratete	L	a	b	
3203-25A*	0-25 mm	4 µm	32	9	28	**158,99**
3203-50A*	25-50 mm	4 µm	57	14	38	**185,81**
3203-75A*	50-75 mm	5 µm	82	15	49	**242,06**
3203-100A*	75-100 mm	5 µm	107	15	60	**271,19**
3203-125A	100-125 mm	6 µm	133	16.5	73	**368,61**
3203-150A	125-150 mm	6 µm	158	16.5	85	**422,85**
3203-175A	150-175 mm	7 µm	183	19.4	104	**521,28**
3203-200A	175-200 mm	7 µm	209	19.4	117	**558,45**

* *livrat cu certificat de inspectie producator trasabil la DKD Germany*
La comanda se pot aduce micrometre pana la 300 mm
La comanda micrometrele se pot aduce si cu gradatie in inch, 0,0001"

3206

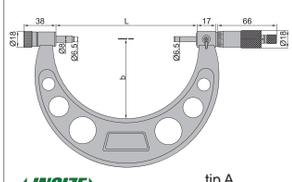
Micrometru de exterior cu palpatori interschimbabili

- *gradatie: 0.01 mm*
- *suprafetele de masurare cu carbura*
- *opritor cu clichet*
- *se livreaza cu setul standard de calibrare*

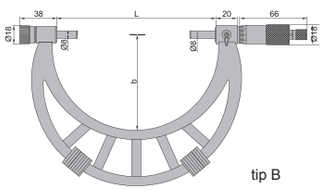








tip A



tip B

INSIZE

	Scala	Acuratete	L	b	Tip	Set inclus	
3206-100A	0-100 mm	5 µm	108	57	A	25; 50; 75	**1.175,15**
3206-150A	0-150 mm	6 µm	158	82	A	25; 50; 75; 100; 125	**1.446,34**
3206-200A	100-200 mm	7 µm	208	114	A	100; 125; 150; 175	**1.647,22**
3206-300A	150-300 mm	9 µm	308	165	A	150; 175; 200; 225; 250; 275	**1.868,18**
3206-301A	200-300 mm	9 µm	308	165	A	200; 225; 250; 275	**1.817,96**
3206-400	300-400 mm	11 µm	409	224	B	325; 375	**2.922,80**
3206-500	400-500 mm	13 µm	509	275	B	425; 475	**3.314,52**
3206-600	500-600 mm	14 µm	609	321	B	525; 575	**3.806,68**
3206-800	700-800 mm	18 µm	809	426	B	725; 775	**5.172,66**
3206-900	800-900 mm	20 µm	909	476	B	825; 875	**5.845,61**
3206-1000	900-1000 mm	22 µm	1009	576	B	925; 975	**6.699,35**

272

Micrometru mecanic de exterior

- *confectionat din otel de calitate. Suprafata de masurare confectionata din aliaj rezistent*
- *ax 6,5 mm dia., cu maner ce se blocheaza si clichet*
- *in concordanta cu DIN 863*
- *domeniul de masurare 0 - 25 mm, indicator minimal 0,01 mm*
- *conform cu standardul DIN 863*



UNIOR

	Scala	
617698	0-25 mm	**192.68**

3101

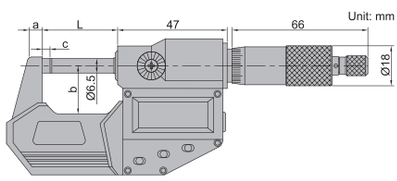
Micrometru digital de exterior

- *rezolutie: 0.001mm/0.00005"*
(rezolutiea pentru 3101-275 si 3101-300A este : 0.001mm/0.0001"
- *clasa de protectie: IP65 praf / apa*
- *butoane: on/off, set, mm/inch, ABS/INC, data output*
- *export date*
- *baterie: SR44 sau LR44, oprire automata*
- *suprafetele de masurare cu carbura*
- *se livreaza cu palpatorul sferic*
- *se livreaza cu setul standard de calibrare, exceptie 0-25mm*

IP65 WATERPROOF

DATA OUTPUT

INSPECTION CERTIFICATE TRACEABLE TO DKD







nicovala sferica (inclusa)



masurare grosime perete teava



INSIZE

	Scala	Acuratete	L	a	b	c	
3101-25A*	0-25 mm	2 µm	32,5	6	24	3	**1.104,84**
3101-50A*	25-50 mm	2 µm	57,5	8	32	3	**1.386,07**
3101-75A*	50-75 mm	3 µm	82,5	8	44,5	3	**1.556,82**
3101-100A*	75-100 mm	3 µm	107,5	8	57	3	**1.687,39**
3101-125A	100-125 mm	3 µm	133	10	70	3	**1.978,67**
3101-150A	125-150 mm	3 µm	158,5	10	82	3	**2.119,28**
3101-175A	150-175 mm	4 µm	184	12	94,5	5,5	**2.219,72**
3101-200A	175-200 mm	4 µm	209,5	12	107	5,5	**2.400,52**

* *livrat cu certificat de inspectie producator trasabil la DKD Germany*

3108

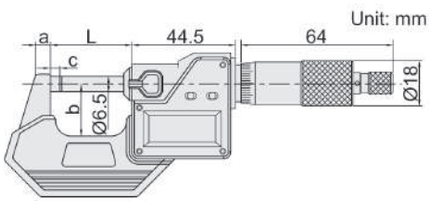
Micrometru digital de exterior

- *rezolutie: 0.001mm*
- *clasa de protectie: IP54 praf / apa*
- *butoane: on/off, set, mm/inch, ABS/INC*
- *fara export date*
- *baterie: SR44 sau LR44, oprire automata*
- *suprafetele de masurare cu carbura*
- *se livreaza cu palpatorul sferic*
- *se livreaza cu setul standard de calibrare, exceptie 0-25mm*

IP65 WATERPROOF

INSPECTION CERTIFICATE TRACEABLE TO DKD

ATTENTION: NO DATA OUTPUT





nicovala sferica (inclusa)

masurare grosime perete teava

	Scala	Acuratete	L	a	b	c	
3108-25A*	0-25 mm	2 µm	32,5	6	24	3	**756,31**
3108-50A*	25-50 mm	2 µm	57,5	8	32	3	**963,22**
3108-75A*	50-75 mm	3 µm	82,5	8	44,5	3	**1.134,97**
3108-100A*	75-100 mm	3 µm	107,5	8	57	3	**1.245,46**
3108-125A	100-125 mm	3 µm	133	10	70	3	**1.416,20**
3108-150A	125-150 mm	3 µm	158,5	10	82	3	**1.546,78**
3108-175A	150-175 mm	4 µm	184	12	94,5	5,5	**1.687,39**
3108-200A	175-200 mm	4 µm	209,5	12	107	5,5	**1.848,10**

* *livrat cu certificat de inspectie producator trasabil la DKD Germany*

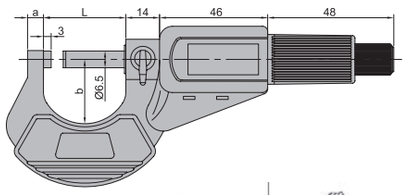
3109

Micrometru digital de exterior

- *rezolutie: 0.001mm/0.00005"*
- *butoane: on/off, set, mm/inch, ABS/INC*
- *export de date*
- *baterie: CR2032, oprire automata*
- *suprafetele de masurare cu carbura*
- *se livreaza cu palpatorul sferic*
- *se livreaza cu setul standard de calibrare, exceptie 0-25mm*

MANUFACTURER INSPECTION CERTIFICATE TRACEABLE TO DKD

ATTENTION: NO DATA OUTPUT





nicovala sferica (inclusa)



masurare grosime perete teava



	Scala	Acuratete	L	a	b	c	
3109-25A*	0-25 mm	2 µm	32,5	6	24	3	**551,42**
3109-50A*	25-50 mm	2 µm	57,5	8	32	3	**726,18**
3109-75A*	50-75 mm	3 µm	82,5	8	44,5	3	**852,74**
3109-100A*	75-100 mm	3 µm	107,5	8	57	3	**963,22**

* *livrat cu certificat de inspectie producator trasabil la DKD Germany*

3506

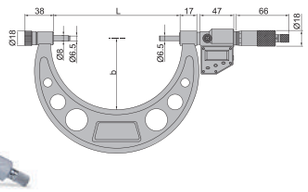
Micrometru digital de exterior cu palpatori interschimbabili

- *rezolutie: 0.001mm/0.0001"*
- *clasa de protectie: IP54*
- *butoane: on/off, set, mm/inch*
- *export date ABS/INC*
- *export date RS232*
- *baterie: SR44 sau LR44, oprire automata*
- *suprafetele de masurare cu carbura*
- *se livreaza cu setul standard de calibrare*

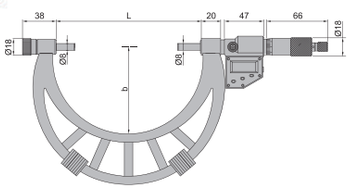
IP54 WATERPROOF

DATA OUTPUT









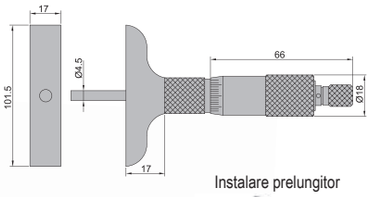
	Scala	Acuratete	L	b	Tip	Set inclus	
3506-301A	200-300 mm	8 µm	305	165	A	200; 225; 250; 275	**2.942,89**
3506-400A	300-400 mm	9 µm	405	224	B	325; 375	**3.836,81**
3506-500A	400-500 mm	11 µm	505	275	B	425; 475	**4.339,01**
3506-600A	500-600 mm	12 µm	605	321	B	525; 575	**4.861,30**

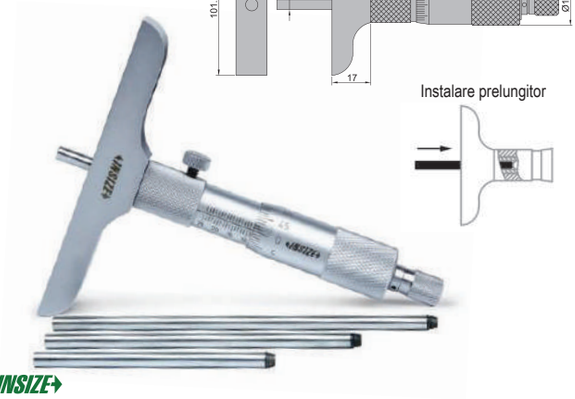
La comanda se pot aduce micrometre pana la 1000 mm

3240

Micrometru mecanic de adancime, cu talpa

- *gradatie : 0.01mm*
- *acuratetea capului micrometric : ± 3 µm*
- *acuratetea extensiilor : ± (2 + L / 75) µm (L = lungimea maxima de masurat)*
- *extensiile cu capete plate*
- *clichet de oprire*





Instalare prelungitor

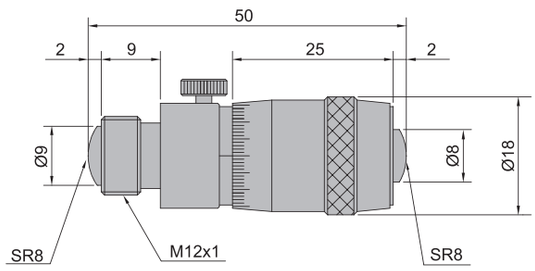
	Scala	Extensii	
3240-25	0-25 mm	1 pcs	**442,94**
3240-50	0-50 mm	2 pcs	**512,24**
3240-75	0-75 mm	3 pcs	**621,72**
3240-100	0-100 mm	4 pcs	**657,88**
3240-150	0-150 mm	6 pcs	**837,67**
3240-200	0-200 mm	8 pcs	**1.215,32**
3240-300	0-300 mm	12 pcs	**1.586,95**

3222

Micrometru mecanic tubular de interior

- *gradatie : 0.01mm*
- *acuratetea : (3 + n + L/50) µm*
  n = numarul de extensii
  L = lungimea maxima de masurat
- *se livreaza cu setul standard de extensii*
- *suprafetele de masurare cu carbura*

Set extensii incluse:
3222-63: -
3222-150: 13 mm, 25 mm, 50 mm
3222-300: 13 mm, 25 mm, 50 mm (2 bucati), 100 mm
3222-500: 13mm, 25 mm, 50 mm (2 bucati), 100 mm, 200 mm
3222-600: 13 mm, 25 mm, 50 mm, 100 mm, 150 mm, 200 mm
3222-1000: 13 mm, 25 mm, 50 mm (2 bucati), 100 mm, 200 mm (2 bucati), 300 mm
3222-1500: 13 mm, 25 mm, 50 mm (2 bucati), 100 mm, 200 mm (3 bucati), 300 mm (2 bucati)





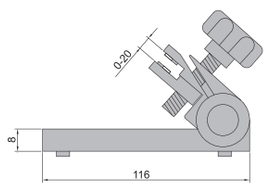
INSIZE

	Scala	Cursa capului micrometric	
3222-63	50-63 mm	13 mm	**765,35**
3222-150	50-150 mm	13 mm	**835,66**
3222-300	50-300 mm	13 mm	**1.155,06**
3222-500	50-500 mm	13 mm	**1.486,51**
3222-600	50-600 mm	13 mm	**1.576,91**
3222-1000	50-1000 mm	13 mm	**2.842,45**
3222-1500	50-1500 mm	13 mm	**3.917,16**

6300

Stativ pentru micrometre

- *corpul turnat din aliaj usor*
- *protectie prin vopsire*





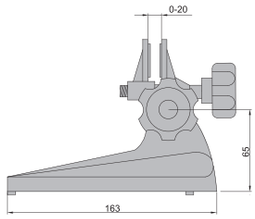
INSIZE

	Pentru micromete max.	Deschidere max.	Lungime baza	
6300	100 mm	20 mm	116 mm	**223,98**

6301

Stativ pentru micrometre

- *corpul turnat din aliaj usor*
- *protectie prin vopsire*





INSIZE

	Pentru micromete max.	Deschidere max.	Lungime baza	
6301	100 mm	20 mm	163 mm	**152,67**

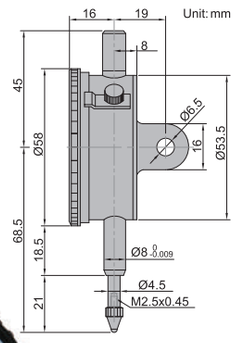
2308

Ceas comparator

- *gradatie: 0.01 mm*
- *lagare cu rubini*
- *se livreaza cu palpator*

JEWELED BEARING

INSPECTION CERTIFICATE TRACEABLE TO DKD





INSIZE

	Scala	Gradatie	Acuratete	Citire	
2308-3A*	3 mm	0.01 mm	14 µm	0-100	**238,04**
2308-5A*	5 mm	0.01 mm	16 µm	0-100	**235,03**
2308-10A*	10 mm	0.01 mm	17 µm	0-100	**182,80**

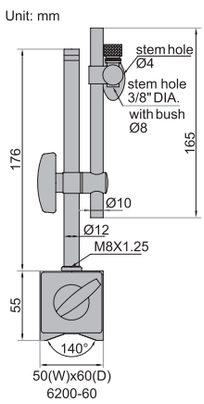
* *livrat cu certificat de inspectie producator trasabil la NIST USA*

6200

Suport magnetic pentru ceas comparator

- *fara reglaj fin*





INSIZE

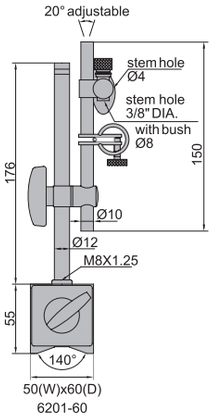
	Forta magnetica	Diametre	
6200-60	60 kgf	Ø8 mm, Ø4 mm, 3/8" DIA	**171,75**

6201

Suport magnetic pentru ceas comparator

• *cu reglaj fin*





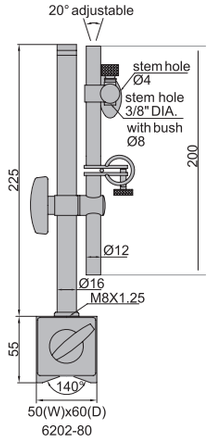
	Forta magnetica	Diametre	
6201-60	60 kgf	Ø8 mm, Ø4 mm, 3/8" DIA	**159,70**

6202-80

Suport magnetic pentru ceas comparator

• *cu reglaj fin*





INSIZE

	Forta magnetica	Diametre	
6202-80	80 kgf	Ø8 mm, Ø4 mm, 3/8" DIA,	**274,20**

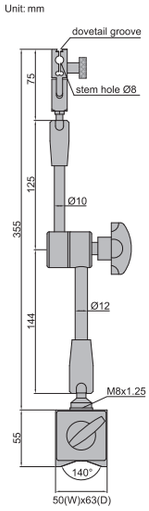
6208-80A

Suport magnetic universal pentru ceas comparator

• *cu reglaj fin*

LOW LOCK FORCE





INSIZE

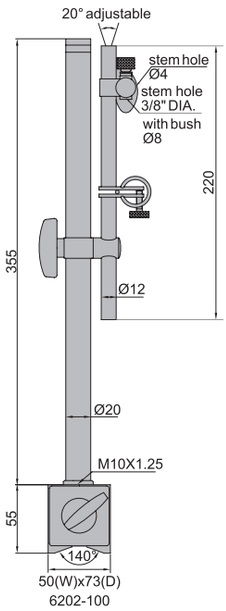
	Forta magnetica	Diametre	
6208-80A	80 kgf	Ø8 mm	**405,78**

6202-100

Suport magnetic pentru ceas comparator

• *cu reglaj fin*





INSIZE

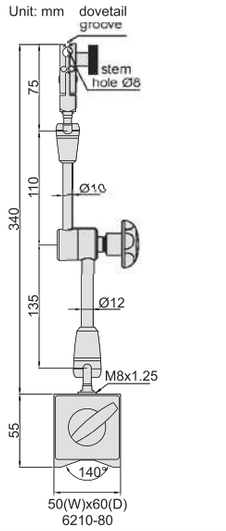
	Forta magnetica	Diametre	
6202-100	100 kgf	Ø8 mm, Ø4 mm, 3/8" DIA	**405,78**

6210-80

Suport magnetic universal pentru ceas comparator

• *cu reglaj fin*





INSIZE

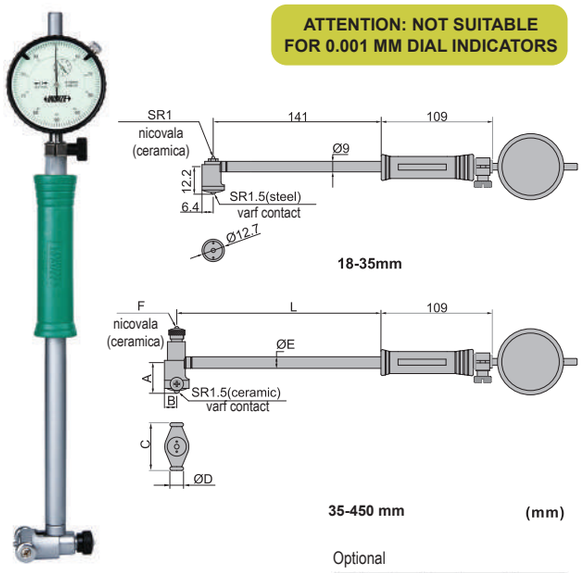
	Forta magnetica	Diametre	
6210-80	80 kgf	Ø8 mm	**718,15**

2322

Trusa de masurat alezaje, cu ceas comparator

- *ceas comparator cu cursa de 10 mm (cod 2308-10FA)*
- *gradatii: 0.01 mm*

ATTENTION: NOT SUITABLE FOR 0.001 MM DIAL INDICATORS



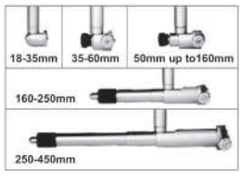
Optional

varf ceramic de contact



nicovala ceramica





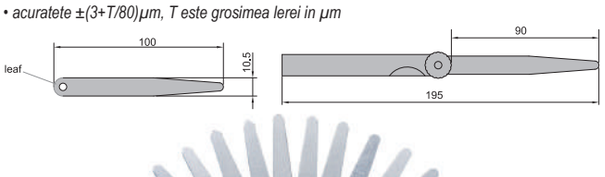
INSIZE

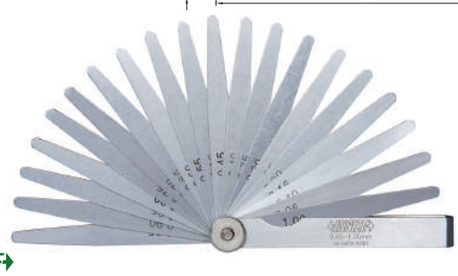
	Scala	Acuratete	Repetabilitate	
2322-35A	18-35 mm	±0.015 mm	0.003 mm	**873,83**
2322-60A	35-60 mm	±0.018 mm	0.003 mm	**873,83**
2322-100A	50-100 mm	±0.018 mm	0.003 mm	**902,96**
2322-160A	50-160 mm	±0.018 mm	0.003 mm	**910,99**
2322-161A	100-160 mm	±0.018 mm	0.003 mm	**913,00**
2322-250A	160-250 mm	±0.018 mm	0.003 mm	**1.466,42**
2322-450A	250-450 mm	±0.018 mm	0.003 mm	**1.627,13**

4602

Lere de grosime

- *material: otel aliat tratat*
- *in conformitate cu DIN 2275*
- *acuratete ±(3+T/80)µm, T este grosimea lerei in µm*





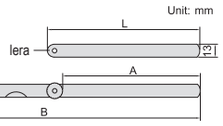
INSIZE

	Dimensiune	Lere	Piese	
4602-13A	0.03-0.50 mm	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50	13	**40,38**
4602-13	0.05-1.00 mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.08, 0.90, 1.00	13	**25,61**
4602-17	0.02-1.00 mm	0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00	17	**42,29**
4602-32	0.03-1.00 mm	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.13, 0.15, 0.18, 0.20, 0.23, 0.25, 0.28, 0.30, 0.33, 0.35, 0.40, 0.45,0.50, 0.55, 0.60, 0.63, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 1.00	32	**65,79**

4605

Lere de grosime

- *material: otel aliat tratat*
- *in conformitate cu DIN 2275*
- *acuratete ±(3+T/80)µm, T este grosimea lerei in µm*





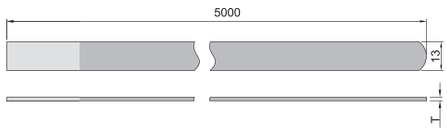
INSIZE

	Dimensiune	Lere	Piese	L	A	B	
4605-13	0.05-1.00 mm	0.05, 0.10, 0.15, 0.20,0.25, 0.30, 0.40, 0.50,0.60, 0.70, 0.80, 0.90, 1.00	13	150	135	295	**52,47**
4605-131	0.05-1.00 mm	0.05, 0.10, 0.15, 0.20,0.25, 0.30, 0.40, 0.50,0.60, 0.70, 0.80, 0.90, 1.00	13	200	185	395	**72,52**
4605-132	0.05-1.00 mm	0.05, 0.10, 0.15, 0.20,0.25, 0.30, 0.40, 0.50,0.60, 0.70, 0.80, 0.90, 1.00	13	300	285	590	**98,43**
4605-201	0.05-1.00 mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	20	200	185	395	**98,73**
4605-202	0.05-1.00 mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	20	300	285	590	**143,63**

4621

Lere de grosime banda

- *material: otel tratat*
- *lungime: 5 m*
- *latime: 13 mm*





INSIZE

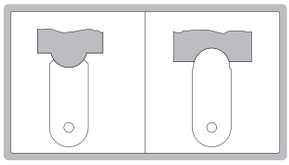
	Grosime	Acuratete	
4621-02	0.02 mm	± 4 µm	**97,83**
4621-03	0.03 mm	± 4 µm	**76,74**
4621-04	0.04 mm	± 4 µm	**76,74**
4621-05	0.05 mm	± 4 µm	**57,55**
4621-06	0.06 mm	± 4 µm	**57,65**
4621-08	0.08 mm	± 5 µm	**57,85**
4621-09	0.09 mm	± 5 µm	**57,95**
4621-10	0.10 mm	± 5 µm	**58,05**
4621-15	0.15 mm	± 6 µm	**58,66**

4801

Lere pentru raze

- *material: otel aliat tratat*
- *profil concav si convex*





INSIZE

	Dimensiune	Lere	Piese	Acuratete	
4801-17	1-7 mm	1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	17+17	± 0.03 mm	**95,92**
4801-16	7.5-15 mm	7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15	16+16	± 0.035 mm	**96,12**
4801-15	15.5-25 mm	15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 21, 22, 23, 24, 25	15+15	± 0.042 mm	**96,12**

701

Lere de grosime

- *certificat de conformitate*
- *otel inoxidabil*



UNIOR

	Dimensiune	Piese	
601896	0.05 - 0.5	8	**23.50**
601897	0.05 - 1	13	**34.29**
601898	0.05 - 1	20	**53.36**

701A

Set lere pentru verificare filete

- *certificat de conformitate*
- *otel inoxidabil*
- *metric-scala: 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.60, 0.70, 0.75, 0.80, 0.90, 1.0, 1.25, 1.50, 1.75, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0 (24 lere)*
- *whitworth - scala: 4, 4.5, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62 (28 piese)*
- *aceste lere de filet sunt folosite pentru masurarea filetelor interioare si exterioare in metric si whitworth*



UNIOR

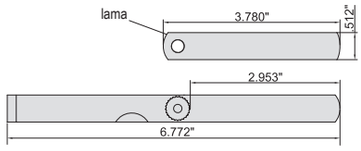
	Dimensiune	Piese	
616706	-	52	**37.46**

4608-31

Lere de grosime 32 piese

- *dimensiunea de .010"este fabricata din alama*
- *restul dimensiunilor realizate din otel aliat tratat*
- *fiecare lama este marcata in inch / metric*





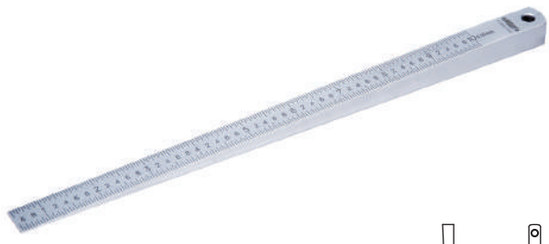
INSIZE

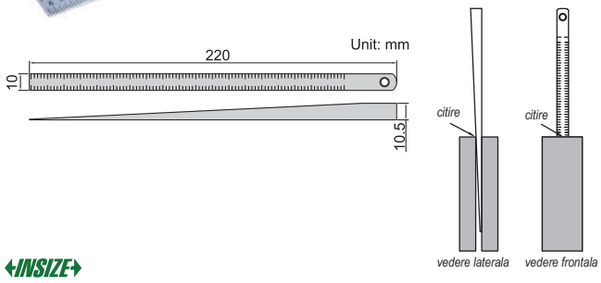
	Dimensiuni	Lere	Acuratete	
4608-31	0.0015"-0.035"/32	.010" (alama)	± .0002"	**54,64**
		.0015", .002"	± .0002"	
		.0025", .003", .004", .005", .006", .007"	± .00028"	
		.008", .009"	± .00035"	
		.010", .011"	± .00039"	
		.012", .013"	± .00047"	
		.014", .015"	± .00051"	
		.016", .017"	± .00055"	
		.018", .019"	± .00059"	
		.020", .021"	± .00067"	
		.022", .023"	± .00071"	
		.024", .025", .026"	± .00075"	
		.028"	± .00091"	
		.030"	± .00094"	
		.032", .035"	± .00102"	

4630-1

Rigla conica cu gradatii

- *pentru masurarea rapida a interstitiilor*
- *suprafata de citire satinata*
- *realizata din otel inoxidabil*





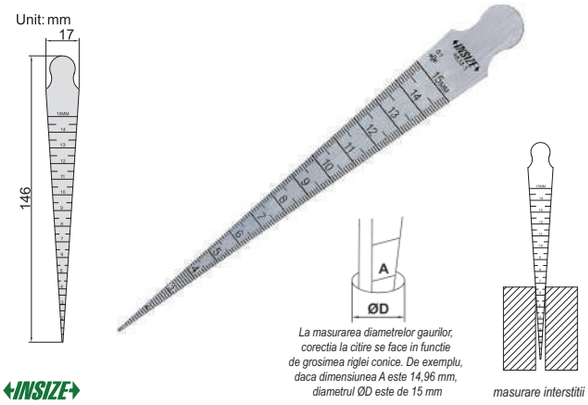
INSIZE

	Dimensiune	Gradatii	Acuratete	L	a	b	
4630-1	0,5 - 10 mm	0.05 mm	± 0.07mm	220	10	10.5	**255,12**
4630-2	0,5 - 15 mm	0.10 mm	± 0.08mm	184	12.5	16.5	**423,86**
4630-3	0,4 - 6 mm	0.05 mm	± 0.04mm	164	12.5	6.5	**364,60**

4833-1

Rigla conica cu gradatii

- *pentru masurarea deschiderilor, a interstitiilor, a diametrului gaurilor*
- *tabelul de corectie al diametrelor, pe spatele riglei*
- *realizata din otel inoxidabil*



La masurarea diametrelor gaurilor, corectia la citire se face in functie de grosimea riglei conice. De exemplu, daca dimensiunea A este 14,96 mm, diametrul ØD este de 15 mm

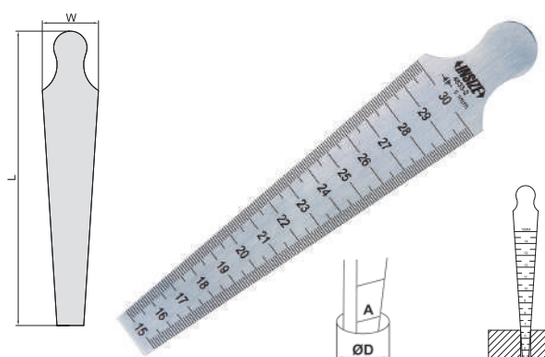
masurare interstitii

	Dimensiune	Gradatii	Acuratete	L	W	
4833-1	0.8-15 mm	0.1 mm	± 0.1 mm	146	17	**57,55**

4833-2

Rigla conica cu gradatii

- *pentru masurarea deschiderilor, a interstitiilor, a diametrului gaurilor*
- *tabelul de corectie al diametrelor, pe spatele riglei*
- *realizata din otel inoxidabil*



La masurarea diametrelor gaurilor, corectia la citire se face in functie de grosimea riglei conice. De exemplu, daca dimensiunea A este 14,96 mm, diametrul ØD este de 15 mm

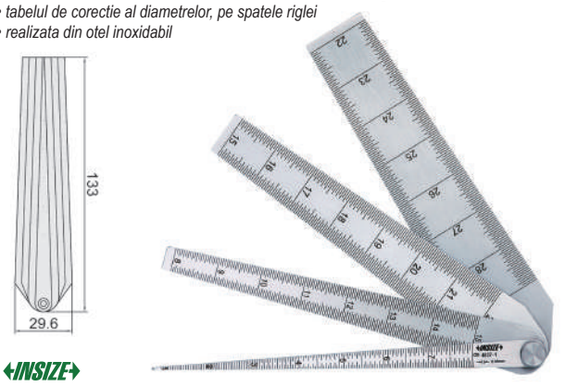
masurare interstitii

	Dimensiune	Gradatii	Acuratete	L	W	
4833-2	15-30 mm	0.1 mm	± 0.1 mm	159	30.4	**105,46**

4837-1

Set lere tip pana

- *include 4 piese: 1-8 mm, 8-15 mm, 15-22 mm, 22-29 mm*
- *pentru masurarea deschiderilor, a interstitiilor, a diametrului gaurilor*
- *tabelul de corectie al diametrelor, pe spatele riglei*
- *realizata din otel inoxidabil*

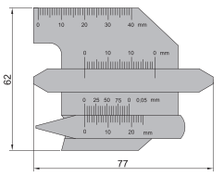


	Dimensiune	Gradatii	Acuratete	L	W	
4837-1	1-29 mm	0.05 mm	± 0.05 mm	133	29.6	**334,47**

4838-1

Subler sudura

- *material: otel inoxidabil*

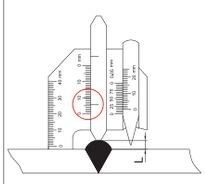




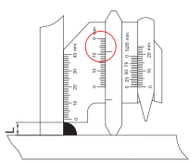
fata



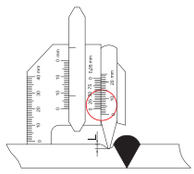
spate



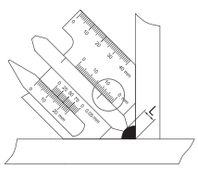
inaltime coroana



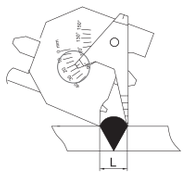
inaltime picior



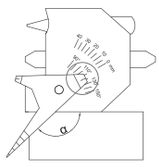
adancime sub cota



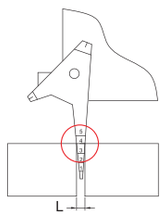
dimensiune cordon



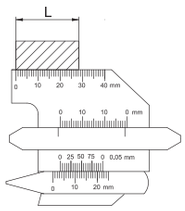
latime cordon sudura



unghi



deschidere



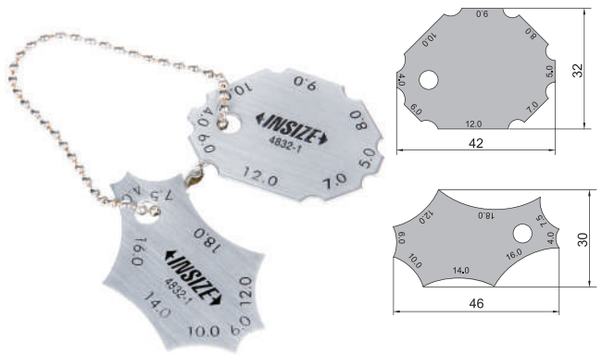
lungime

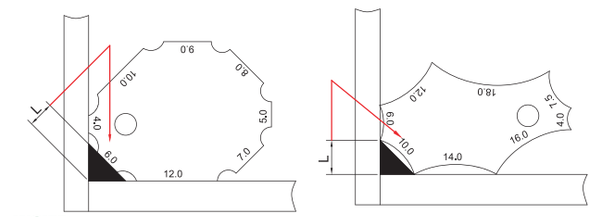
	Masuratori	Domeniu	Scala	Acuratete	
4838-1	inaltime cordon	0-10 mm	1 mm	± 0,5 mm	**287,26**
	inaltime picior	0-14 mm	1 mm	± 0,5 mm	
	adancimea sub cota	0-5 mm	0.05 mm	± 0,5 mm	
	dimensiune cordon	0-13 mm	1 mm	± 0,5 mm	
	lungime sudura	0-40 mm	1 mm	± 1 mm	
	unghi	90°-150°	5°	± 1°	
	deschidere	0.5-5 mm	1 mm	± 0,5 mm	
	lungime	0-40 mm	1 mm	± 0,5 mm	
4838-2	inaltime cordon	0-15 mm	1 mm	± 0,5 mm	**354,55**
	inaltime picior	0-15 mm	1 mm	± 0,5 mm	
	adancimea sub cota	0-5 mm	0.05 mm	± 0,05 mm	
	dimensiune cordon	0-13 mm	1 mm	± 0,5 mm	
	lungime sudura	0-60 mm	1 mm	± 1 mm	
	unghi	80°-160°	5°	± 1°	
	deschidere	1-6 mm	1 mm	± 0,5 mm	
	lungime	0-50 mm	1 mm	± 0,5 mm	

4832-1

Sablon pentru sudura

- *material: otel inoxidabil*
- *marcaj pe ambele fete*





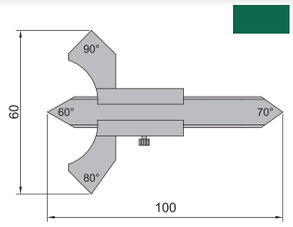
INSIZE

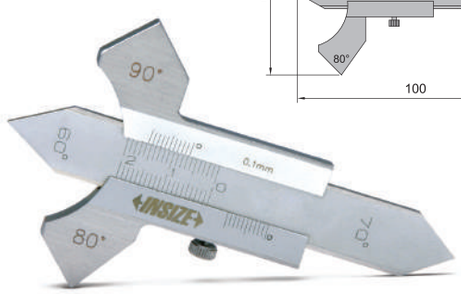
	Masuratori	Domeniu	Acuratete	
4832-1	inaltime cordon	4, 5, 6, 7, 8, 9, 10, 12	± 0,5 mm	99,84
	inaltime picior	4, 6, 7.5, 10, 12, 14, 16, 18	± 0,5 mm	

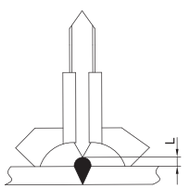
4830

Subler sudura

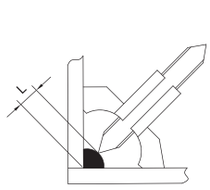
- *material: otel inoxidabil*
- *cromare satinata*



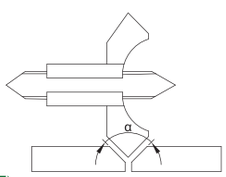




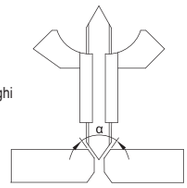
inaltime cordon



dimensiune sudura de colt



unghi



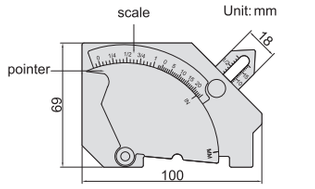
INSIZE

	Masuratori	Domeniu	Scala	Acuratete	
4830	inaltime cordon	0-8 mm	0,1 mm	± 0,1 mm	214,94
	dim. sudura de colt	0-20 mm	1 mm	± 0,3 mm	
	unghi	60°, 70°, 80°, 90°	-	± 1°	

4835-1

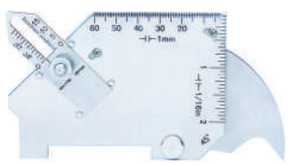
Subler sudura

- *material: otel inoxidabil*

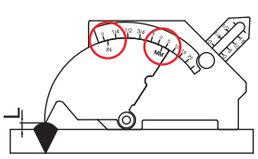




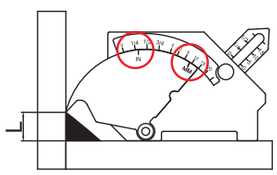
fata



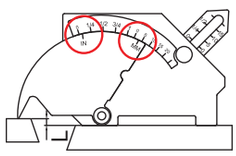
spate



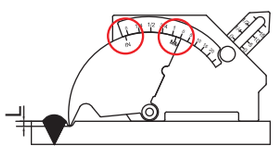
inaltime cordon sudura



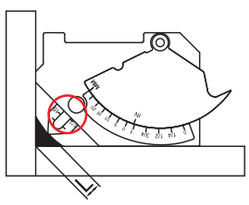
inaltime picior sudat
(inaltimea cordonuli de colt)



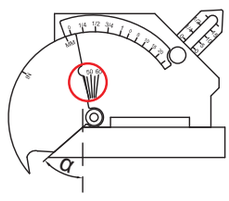
nealiniere (jos - sus)



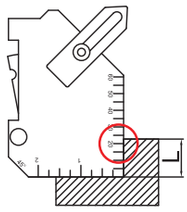
adancimea sub cota



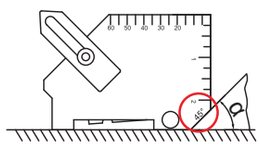
grosime cordon sudura
de colt



unghiul de pregatire



lungime



unghi 45°

INSIZE

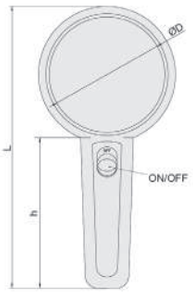
	Masuratori	Domeniu	Scala	Acuratete	
4835-1	inaltime cordon sudura	0-25 mm (0-1")	1 mm (1/16")	± 0,5 mm	289,27
	inaltime picior sudat (inaltimea cordonuli de colt)	0-25 mm (0-1")	1 mm (1/16")	± 0,5 mm	
	nealiniere (jos - sus)	0-25 mm (0-1")	1 mm (1/16")	± 0,5 mm	
	adancimea sub cota	0-2 mm (0-1/8")	1 mm (1/16")	± 0,5 mm	
	grosime cordon sudura de colt	0-20 mm (0-3/4")	1 mm (1/16")	± 0,5 mm	
	unghiul de pregatire	0°-60°	5°	± 1°	
	lungime	0-60 mm (0-2")	1 mm (1/16")	± 0,5 mm	
	unghi 45°	-	-	± 1°	

7513-4

Lupa, marire 4X, cu LED

- *rama si maner din plastic*
- *butoane: ON/ OFF pentru aprinder / stingere LED-uri*
- *functioneaza cu 3 baterie AAA*





INSIZE

	Marire	Diametru	
7513-4	4x	Ø50 mm	**50,82**

ISH-R150

Durimetru manual ROCKWELL

- *durimetru manual ROCKWELL*
- *afisarea valorii citite - ceas analogic*



INSIZE

	Specificatii tehnice		
	caracteristica	valoare	
ISH-R150*	scale de duritate	HRA, HRB, HRC, HRD, HRF, HRG	**19382,94**
	forta de incercare preliminara	98 N	
	forta de incercare	588N, 980 N, 1471N	
	afisaj	analogic	
	reglajul pe inaltime	manual	
	controlul incarcarii	manual	
	citirea, min.	0,5 HR	
	inaltime maxima piesa	170 mm	
	adancime maxima piesa	165 mm de la centrul penetratorului	
	dimensiune	520 x 160 x 700 mm	
	greutate	60 kg	

* *livrat cu certificat de inspectie de la producator*

ISH-RD200

Durimetru manual ROCKWELL, cu afisare digitala

- *toleranta masurarii de cu alarma*
- *setati timpii de masurare prin (2-9) pentru a avea o valoare medie, si diferenta de maxim si minim valoare*
- *convertire automat la HV sau HB*
- *memorie pentru 1000 valorilori măsurate - navigare si de iesire de date*
- *valoarea de masurare pot fi trimise la imprimantă fara fir in mod automat*
- *functia de calibrare compenseaza valoarea masurata pentru precizia inalta*
- *pentru materialele moi valoarea de duritate nu este stabila*
- *functia de blocare se poate obtine in mod automat la o valoare*
- *inchidere automata*

DATA OUTPUT



INSIZE

	Scale de duritate		Specificatii tehnice		
	cu penetrator standard	cu penetrator optional	caracteristica	valoare	
ISH-RD200*	HRA, HRB, HRC, HRD, HRF, HRG	HRE, HRH, HRK	forta incercare preliminara	98 N	**22726.44**
			forta incercare	588N, 980 N, 1471N	
			reglajul pe inaltime	manual	
			controlul incarcarii	manual	
			rezolutie	0,1 HR	
			iesire date	wireless si USB	
			memorie	1000	
			inaltime maxima piesa	170 mm	
			adancime maxima piesa	165 mm de centrul penetratorului	
			alimentare electrica	cu acumulator	
			dimensiune	520x160x700 mm	
			greutate	60 kg	

* *livrat cu certificat de inspectie de la producator*

1980

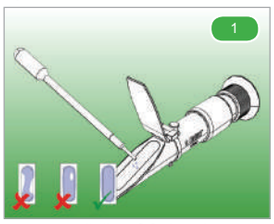
Refractometru in cutie de plastic

• pentru masurarea concentratiei electrolitilor in baterie in plaja 1,10-1,40 KG/l
• pentru masurarea gradului de eficacitate al antigelului (etilena sau propilena) pe o scara coborand pana la -50° Celsius
• pentru masurarea gradului de eficacitate al lichidului spalare parbriz pe o scara coborand pana la -40° Celsius
• scara gradata in intervale de 0.01 Kg/L pentru masurarea concentratiei electrolitului si de 5°C pentru masurarea altor doua lichide
• ambalat intr-o cutie de plastic si tava de scule SOS, care permite ambalarea in siguranta a testerului
• livrat cu pipeta si o surubelnita pentru ajustarea calibrarii
• instructiuni de folosire incluse

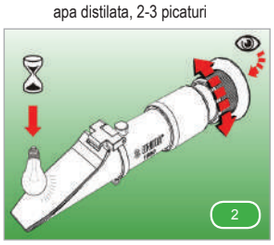
Important
• inainte si dupa folosire, testerul trebuie curatat



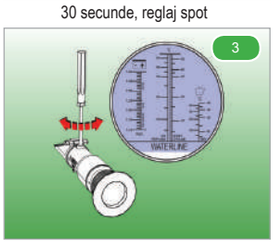
CALIBRARE:



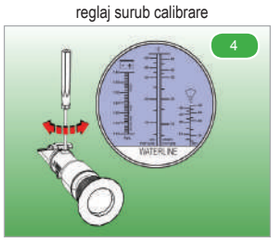
apa distilata, 2-3 picaturi



30 secunde, reglaj spot



reglaj surub calibrare



suprafata alba reglata la linia de zero

UNIOR

621403	315	1G	1	512.72

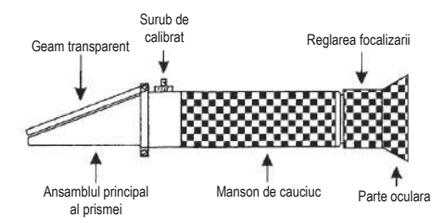
REF2008

Refractometru pentru masurarea continutului de ulei din lichidele de racire utilizate la taieri

Instructiuni de utilizare:

Pasul 1: Deschideti geamul transparent si puneti 2-3 picaturi de apa distilata sau lubrifiant de calibrare pe prisma principala. Inchideti geamul transparent astfel incat apa sa se intinda pe intreaga suprafata a prismei fara bule de aer sau pete uscate. Permiteti mostrei de testare sa actioneze aproximativ 30 de secunde pe prisma inainte de a merge mai departe la pasul 2. (Acest lucru permite mostrei sa se ajusteze temperaturii ambientale a refractometrului).
Pasul 2: Tineti geamul transparent in directia sursei de lumina si uitati-va prin partea oculara. O sa observati un camp circular cu gradatii in centru (trebuie sa reglati partea oculara pentru a putea observa clar gradatia). Partea superioara a domeniului ar trebui sa fie albastra , in timp ce partea inferioara ar trebui sa fie alba. (Imaginile prezentate aici si in pasii 3 &4 sunt numai refer-inte. Scala adevarata specifica este prezentata numai in produs).
Pasul 3: Utilizand apa distilata sau lichidul de calibrat ca si mostra, priveste prin partea oculara si invarte surubelnita de calibrare pana cand se uneste partea superioara albastra cu partea inferioara si ajung la scala zero, dupa cum arata in imagine. Acesta este sfarsitul calibrarii. Asigurati-va ca temperatura din camera este cea corecta pentru ceea ce intentionati sa faceti (20°C pentru solutia noastra este ceea ce inseamna 68 F). Atunci cand temperatura de lucru a camerei sau a mediului (nu a mostrei) se schimba cu mai mult de 5 F, va recomandam recalibrarea pentrua mentine acuratetea si reproductibilitatea.
Daca instrumentul este echipat cu sistem de compensatie automata de temperatura, temperatura mediului ambiental de lucru a camerei trebuie sa fie de 20° C (68 F) ori de cate ori instru-mentul este recalibrat. Odata calibrat, schimbări de temperatura ambiantala între limitele acceptabile (10 C – 30 C) nu ar trebui să influenteze precizia.
Pasul 4: Aplicati pasul 1 folosind modelul de lichide, care va fi măsurat ca substituent de apă distilată sau soluție de calibrare. Dupa care aplicati pasul 2 si 3. Cand faceti pasul 3 inca odata , puteti sa vedeti punctul in care se intalneste linia albastra cu cea alba pe scala gradata. Scala va ofera o citire directa a concentratiei Brix.

Diagrama componentelor





BIPICO

	L (mm)	l (mm)	h (mm)	m (kg)	
REF2008	165	38	38	0,395	841,34

In limita stocului disponibil

Grup materiale	Lichid de racire (continut de ulei)
Cupru	10 %
Alama	3 %
Bronz	
Bronz cu staniu	3 %
Alama rosie	3 %
Bronz aluminiu*	15 %
Bronz cu plumb	3 %
Aluminu	25 %
Aliaje forjate	25 %
	25 %
Fonta (de turnatorie)	25 %
Aliaj pistoane*	25 %
Plastic	
- termoplastic	uscat
- termorigid	uscat
Beton aerat, gazbeton*	uscat
Carbon grafitic*	uscat
Grafit tratat termic**	uscat
Fibro-ciment*/**	uscat
Oteluri structurale	10 %
	10 %
Otel cementat	15 %
	10 %
	10 %
	10 %
Oteluri nitrate	5 %
	5 %
Oteluri pentru masini	15 %
Oteluri tratate si calite	5 %
Oteluri pentru rulmenti	3 %
Oteluri pentru arcuri	3 %

Grup materiale	Lichid de racire (continut de ulei)
Nealiate	3 %
Oteluri pentru unelte	3 %
Oteluri pentru unelte	3 %
prelucrate la rece	uscat /2 %
	uscat /2 %
	3 %
Oteluri pentru unelte	5 %
prelucrate la cald	5 %
Oteluri rapide	3 %
Oteluri inoxidabile	10 %
Oteluri pentru valve	5 %
Oteluri rezistente	10 %
la temperaturi inalte	10 %
Oteluri rezistente	15 %
la caldura	15 %
Aliaje speciale	20 %
	12 %
	20 %
	15 %
Oteluri calite si revenite	
1000-1200 N/mm²	~5 %
1200-1400 N/mm²	~5 %
1400-1600 N/mm²	~5 %
Oteluri calite	
50 HRc	~5 %
55 HRc	~5 %
60 HRc	~5 %
Oteluri turnate / dure	~3 %
	~3 %
Fonta (de turnatorie)	uscat /2 %
-aliaj	uscat /2 %
Titanium	10 %
-aliaj	10 %
Zirconium	12 %

* Sunt recomandate panzele panglica placate CMS
** Sunt recomandate panzele panglica cu acoperire diamantata



CIOCANE, DALTI, TOPOARE, CUTTERE, POANSOANE

Material de inalta calitate

Facute din otel scule carbon de inalta calitate, ciocanele Unior au suprafata de lovire durificata prin inductie. Superioritatea materialelor si fabricatia excelenta sunt doua calitati care deosebesc nu numai ciocanele, ci si celelalte scule de lovire Unior, cum sant daltile forjate sau diversele punctatoare.

Conceptie ergonomica

Utilizarea lor cea mai obisnuita, constand in baterea cuielor, este asigurata demult de tipurile noastre de ciocane si scule de lovire. La gama originala de ciocane cu maner de lemn s-a adaugat o gama de ciocane cu maner metalic cu izolatie adaugata. Noile ciocane Unior sunt dotate cu o acoperire de plastic pentru optimizarea prizei si asigurarea unei utilizari in deplina siguranta.

UNIOR KRONUS WGB Das Werkzeug GRAVUREM tovarna kos in srpov

DIN 1041 Ciocane pentru lacatuserie

1. Debitarea:
otelul patrat este debitat automat pe o presa cu ajutorul unei stante prin forfecare; acuratetea taierii asigura un consum minim de material.



2. Forjarea:
forjarea este clasica la cald permitand obtinerea formei dorite.
Fibrajul corespunzator curgerii materialului in matrita asigura obtinerea de proprietati mecanice foarte bune si a unei cantitati minime de bavura.

3. Debavurarea:
inlaturarea surplusului de material.

4. Ochiul:
se realizeaza conform DIN 1195.

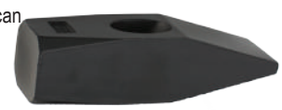
5. Polizarea:
se realizeaza intre doua pietre.

6. Tratamentul termic prin inductie:
tratamentul termic prin inductie a partilor de lovire asigura o duritate mare a ciocanului si o microstructura corespunzatoare care confera acestuia o durata de utilizare foarte lunga.

TRATAMENT TERMIC PRIN INDUCTIE PE CAPETE



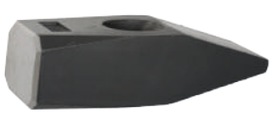
7. Polizarea partilor active:
pentru evitarea pe cat posibil a recululului si a degajarii de aschii. Unghi de sanfren 45-50°.
Latura mica a octogonului este strict reglementata pe fiecare dimensiune de ciocan.



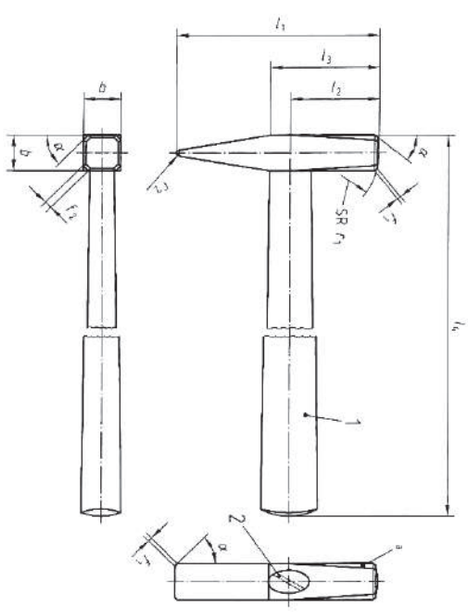
8. Vopsirea:
un strat de vopsea de protectie se realizeaza prin vopsirea in camp electrostatic cu vopsele ecologice fara cadmiu si plumb.

9. Manerul:
este confectionat din lemn de frasin selectionat care indeplineste cerintele DIN 68340 si este protejat cu un lac incolor. Forma profilata obtinuta din strunjire prin copiere cu beneficii pentru ergonomie, priza si antialunecare. Umiditate 9-11%.

10. Marcarea:
Marcajul cu culoare albastra aminteste utilizatorului masurile de securitate obligatorii.



11. Asamblarea finala:
componentele sunt imbinate de operator obtinand un produs de inalta calitate.
Fixarea cozii: conform conditiior tehnice de livrare DIN 1193.



Greutatea nominala [a]		b	f_1 min.	f_2 min.	l_1	l_2	l_3 min.	$l_4 = l_1$ conform DIN 5111	r_1 max.	r_2 min.	α unghi sanfren	Ochi conform DIN 1195 marimea
g	Abaterea de la limite g											
50	± 5	11	0,9	2	75 ± 2	34 ± 2	40	250	190	0,75	45°-50°	12,5 x 7,1
100	± 10	15	1,3	3	82 ± 2	36 ± 2	44	260	190	1,0	45°-50°	16 x 9
200	± 20	19	1,6	4	95 ± 2	43 ± 2	51	280	200	1,5	45°-50°	18 x 10
300	± 25	23	1,9	5	105 ± 3	48 ± 3	58	300	220	1,75	45°-50°	20 x 11,2
500	± 35	27	2,3	6,5	118 ± 3	52,5 ± 3	65	320	240	2,25	45°-50°	25 x 14
800	± 50	33	2,8	7	130 ± 3	59,5 ± 3	72	350	265	2,5	45°-50°	28 x 16
1 000	± 60	36	3,0	8,5	135 ± 3	59 ± 3	75	360	280	3,0	45°-50°	30 x 17
1 500	± 80	42	3,5	10	145 ± 4	65 ± 4	81	380	295	3,5	45°-50°	31,5 x 18
2 000	± 100	47	3,9	11,5	155 ± 4	69 ± 4	87	400	315	4,0	45°-50°	35,5 x 20

Tolerante generale: ISO 2768-v

[a] Indicatiile privind greutatea sunt valabile pentru ciocanele fara coada si pana.

Ciocane 206
Dornuri, punctatoare 210
Preducele 211
Dalti 211
Topoare 213
Cuttere si scule multifunctionale 215
Poansoane si sabloane 220

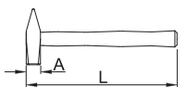


812

Ciocan lacatuserie

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner din lemn de frasin cu pana ovala speciala*
- *in concordanta cu standard DIN 1041*





UNIOR

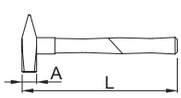
	gr	A	L					
601796	100	13 x 13	260	145	1C	10	**36,39**
601797	150	15 x 15	280	225	1C	10	**38,67**
601799	200	17 x 17	280	280	1C	10	**40,38**
601801	250	18 x 18	300	340	1C	10	**44,27**
601802	300	20 x 20	300	380	1C	10	**47,53**
601803	400	22 x 22	310	487	1C	10	**52,97**
601804	500	25 x 25	320	625	1C	10	**57,01**
601805	600	26 x 26	330	720	1C	6	**68,64**
601806	800	30 x 30	350	955	1C	6	**80,36**
601807	1000	33 x 33	360	1150	1C	6	**97,24**
601808	1250	34 x 34	380	1430	1C	6	**125,02**
601809	1500	37 x 37	380	1690	1C	6	**136,06**
601810	2000	41 x 41	400	2195	1C	6	**145,84**

812A

Ciocan lacatuserie LSI super

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *coada din lemn de frasin cu bucsa de protectie din plastic si pana ovala*
- *in concordanta cu standard DIN 1041*





UNIOR

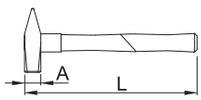
	gr	A	L					
602537	300	20 x 20	300	380	1C	10	**61,83**
602538	500	25 x 25	320	646	1C	10	**75,59**
602539	800	30 x 30	350	960	1C	6	**100,26**
603164	1000	33 x 33	360	1170	1C	6	**142,58**

7812F

Ciocan de lacatuserie cu coada din fibra

- *material: OLC 45*
- *forjat*
- *partile de lovire tratata prin inductie*
- *acoperire: vopsite*
- *maner din fibra de sticla*
- *in conformitate cu standardul DIN 1041*





KRONUS Professional Quality

	gr	A	L		
900482	500	25 x 25	320	625	**48,44**

805A

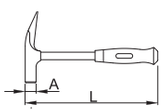
Ciocan dulgher cu magnet

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner metalic rotund cromat cu manson de prindere de plastic*
- *in conformitate cu standardul DIN 7239*

Avantaje:

- *cu magnet*





UNIOR

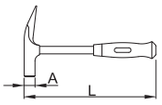
	gr	A	L				
605516	550	21 x 21	320	825	1C	6	**150,17**

805

Ciocan dulgher

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner metalic rotund cromat cu manson de prindere de plastic*
- *in conformitate cu standardul DIN 7239*





UNIOR

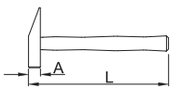
	gr	A	L				
601824	550	21 x 21	320	825	1C	6	**125,02**

810

Ciocan de zidarie cu maner din teava

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner din lemn de frasin cu pana ovala speciala*





UNIOR

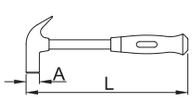
	gr	A	L					
601826	700	25 x 20	320	880	1C	10	**84,35**

813

Ciocan cu varf spintecat

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner metalic rotund cromat cu manson de prindere de plastic*





UNIOR

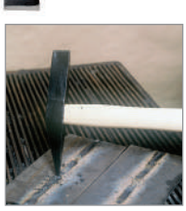
	gr	A	L					
601828	500	22 x 24	300	725	1C	6	**143,41**

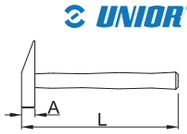
830

Ciocan de sudor

- *material: otel carbon*
- *forjat*
- *partea de lovvire si varful tratate*
- *acoperire: vopsite*
- *maner din lemn de frasin cu pana ovala speciala*







UNIOR

	gr	A	L					
601838	300	20	300	400	1C	10	**88,19**

705

Ciocan cupru

- *cap din cupru forjat, muchii tesite*
- *maner din lemn*





WGB
Das Werkzeug

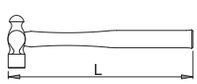
	gr	L		
70503000	300	280	378	**235,77**
70505000	500	310	621	**327,58**
70507500	750	330	910	**458,78**

806

Ciocan cu capete rotunde

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *manere din lemn de frasin*





UNIOR

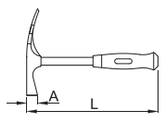
	gr	L				
612221	340	323	470	1C	6	**68,10**
612222	454	348	605	1C	6	**77,69**
612223	680	398	960	1C	6	**98,31**
612224	910	398	1165	1C	6	**106,58**

809

Ciocan zidarie

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner metalic rotund cromat cu manson de prindere de plastic*





UNIOR

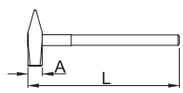
	gr	A	L				
601825	650	20 x 20	300	851	1C	6	**131,20**

816

Baros

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner din lemn de frasin cu pana ovala speciala*
- *in concordanta cu standard DIN 1042*





UNIOR

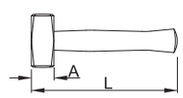
	gr	A	L				
601812	3000	50 x 50	600	3395	1C	1	**207,18**
601813	4000	55 x 55	700	4395	1C	1	**230,53**
601814	5000	60 x 60	800	5595	1C	1	**267,94**
601816	8000	71 x 71	900	8995	1C	1	**407,26**

817

Baros

- *material: otel carbon*
- *forjat*
- *partile de lovire tratate prin inductie*
- *acoperire: vopsite*
- *maner din lemn de frasin cu pana ovala speciala*
- *in conformitate cu standardul DIN 6475*





UNIOR

	gr	A	L				
601840	1000	36 x 36	260	1065	1C	6	**83,09**
601841	1250	38 x 38	260	1305	1C	6	**95,00**
601842	1500	40 x 40	280	1525	1C	6	**111,98**
601843	2000	44 x 44	300	2050	1C	6	**135,48**



818

Baros cu fate drepte

- *material: otel carbon*
- *forjat*
- *partile de lovire tratate prin inductie*
- *acoperire: vopsite*
- *maner din lemn de frasin cu pana ovala speciala*
- *in conformitate cu standardul DIN 6475*





UNIOR

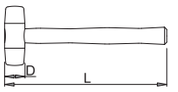
	gr	A	L				
601844	3000	50 x 50	600	3455	1C	1	**180,91**
601845	4000	55 x 55	700	4595	1C	1	**191,86**
601847	5000	60 x 60	800	5720	1C	1	**217,93**
601848	6000	64 x 64	800	6570	1C	1	**258,60**
601849	8000	72 x 72	900	9195	1C	1	**305,10**
601850	10000	74 x 74	900	10595	1C	1	**398,79**

820

Ciocan masa plastica

- *material: celidor, duritate 60-70 shore D*
- *rezistent la ulei*
- *cap turnat gri*
- *maner de lemn vopsit*
- *recomandat pentru lucrari pe materiale moi si usoare*



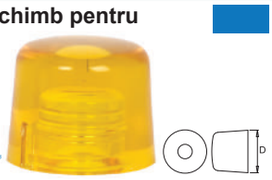


UNIOR

	D	L				
601832	22	260	165	1C	10	**40,13**
601833	27	280	245	1C	10	**47,04**
601834	32	300	321	1C	10	**62,17**
601835	40	320	565	1C	10	**85,32**
601836	50	360	830	1C	6	**116,75**
601837	60	380	1275	1C	6	**151,53**

820.1

Capete de schimb pentru art. 820

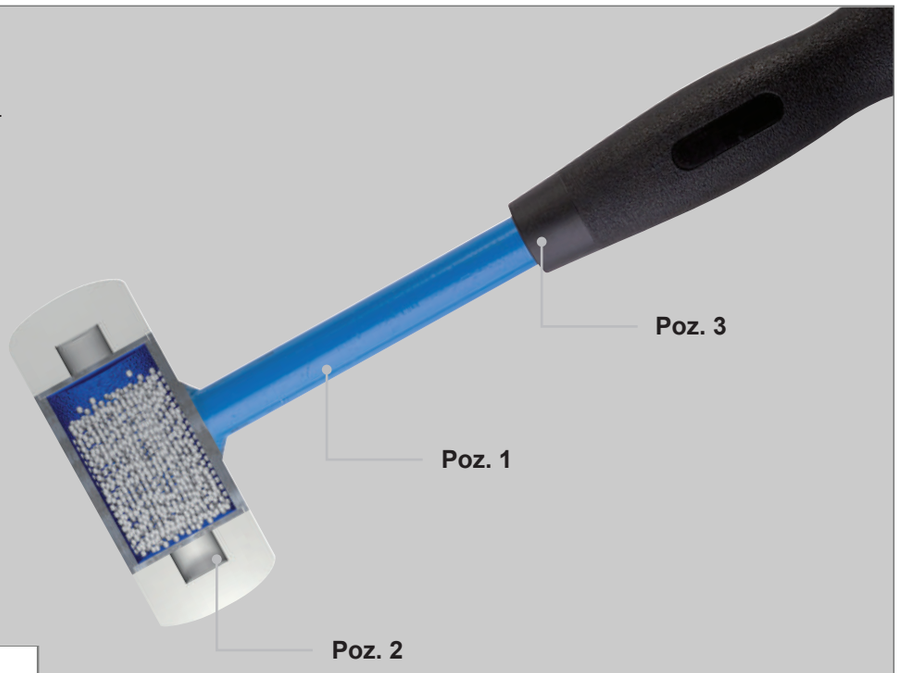


UNIOR

	D				
602530	22	15	1E	10	**10,02**
602531	27	20	1E	10	**10,51**
602532	32	29	1E	10	**12,84**
602533	40	47	1E	10	**19,31**
602534	50	74	1E	10	**28,51**
602535	60	111	1E	10	**36,05**

Structura si material:

- Ciocanul se compune din manerul turnat (Poz. 1), accesoriul (Poz. 2) si maner (Poz. 3).
- Partea turnata a manerului este confectionata din otel aliat care ii confera o mare tenacitate si rezistenta mecanica sporita, putand prelua socuri mari.
- Suprafata este protejata prin vopsire in camp electrostatic ceea ce ii confera rezistenta sporita la deteriorari ale suprafetei.
- Accesoriul este confectionat din material plastic special care se caracterizeaza prin rezistenta la produse din ulei si preia socuri puternice ale loviturii.
- Manerul este confectionat dintr-un material plastic special placut la atingere si cu proprietati antialunecare in mana.
- Forma ergonomica asigura o strangere sigura in mana.





UTILIZARE:

- Ciocanul este folosit pentru loviri, ajustari, deplasarea diverselor obiecte care nu trebuie lovite dur. Acest tip are avantajul fata de ciocanele de plastic clasice faptul ca lovitura nu are recul fata de suprafata lovita, forta de lovire a acestuia fiind mai mare.

819A

Ciocan antirecul

- *fara recul*
- *corpul metalic vopsit*
- *maner metalic tubular vopsit, cu prinderea din plastic*
- *insertii aplicate din poliuretan*
- *securitate ridicata*

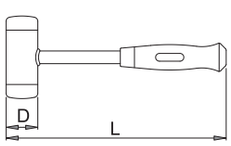
Avantaje:

- *Are un avantaj in fata ciocanelor obisnuite pentru ca nu are recul la impact, deci transferul de energie este in acest fel crescut*

Utilizare

- *Ciocanul este folosit pentru lovirea, ajustarea, mutarea diferitelor obiectecare nu trebuiesc lovite dur.*





UNIOR

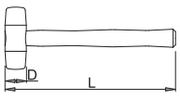
	D	L				
615034	45	315	866	1C	6	**128,33**

820A

Ciocan masa plastica

- *material: poliuretan, duritatea 45 - 55 shore D*
- *rezistent la ulei*
- *cap turnat gri*
- *maner de lemn vopsit*
- *material foarte rezistent ce permite diversitate in utilizare*





UNIOR

	D	L				
605491	22	260	160	1C	10	38,23
605492	27	280	230	1C	10	44,07
605493	32	300	335	1C	10	58,42
605494	40	320	535	1C	10	80,22
605495	50	360	870	1C	6	109,21
605496	60	380	1285	1C	6	142,04

820.1A

Capete de schimb pentru art. 820A





UNIOR

	D				
605503	22	15	1E	10	9,53
605504	27	20	1E	10	9,92
605505	32	30	1E	10	11,67
605506	40	45	1E	10	17,76
605507	50	70	1E	10	25,88
605508	60	113	1E	10	34,15

817.1

Maner cu pana pentru baros

- *maner din lemn de frasin cu pana ovala speciala*



UNIOR

	817				
609623	1000, 1250	125	1V	1	13,04
609624	1500	147	1V	1	14,54
609625	2000	150	1V	1	17,56

812.1

Maner de lemn cu pana pentru ciocan

- *maner din lemn de frasin cu pana ovala speciala*



UNIOR

	812	812A	820	820A	810	830				
605101	100	100	22	22			66	1V	1	9,10
605102	150, 200	150, 200	27	27			67	1V	1	10,41
605103	250, 300	250, 300	32	32			81	1V	1	11,72
605104	400	400				400	110	1V	1	13,04
605105	500	500	40	40			116	1V	1	12,79
605106	600	600			700		130	1V	1	12,79
605107	800	800					145	1V	1	13,91
605108	1000	1000	50	50			200	1V	1	14,98
605109	1250, 1500	1250, 1500	60	60			160	1V	1	15,62
605110	2000	2000					230	1V	1	19,31

818.1

Maner cu pana pentru baros

- *maner din lemn de frasin cu pana ovala speciala*

UNIOR

	816	818				
620649	3000	3000	453	1V	1	26,71
620650	4000	4000	600	1V	1	29,09
620651	5000	5000, 6000	760	1V	1	34,93
620652	8000	8000, 10000	862	1V	1	38,43

818.2

Pana pentru baros



UNIOR

	816	818				
624014	3000, 4000	3000, 4000	11	1V	1	2,63
624015	5000	5000, 6000	18	1V	1	2,82
624016	8000	8000, 10000	27	1V	1	3,45

812.2

Pana pentru ciocan



UNIOR

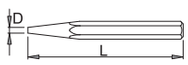
	812	812A	820	820A	810	830	817				
609626	100	100	22	22				2	1V	1	4,57
605095	150, 200	150, 200	27	27				30	1V	1	5,21
605096	250, 300	250, 300	32	32				30	1V	1	5,45
605097	400	400				400		30	1V	1	5,84
605098	500, 600	500, 600	40	40	700			30	1V	1	5,84
605099	800,1000, 1250	800,1000, 1250	50, 60	50, 60			1000, 1250	30	1V	1	6,52
605100	1500, 2000	1500, 2000					1500, 2000	30	1V	1	8,46

640/6

Priboi

- *material: crom vanadiu*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *in concordanta cu standard DIN 6458*





UNIOR

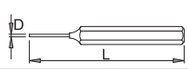
	D	L				
601702	1	120	64	4B	10	**13,67**
601703	2	120	69	4B	10	**13,67**
601704	3	120	70	4B	10	**13,67**
601705	4	120	72	4B	10	**13,67**
601706	5	120	73	4B	10	**13,67**
601707	6	120	75	4B	10	**13,67**
602665	7	120	104	4B	10	**14,74**
601708	8	120	108	4B	10	**14,74**
601709	10	120	139	4B	10	**14,74**

641/6

Dorn

- *material: crom vanadiu*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire:vopsire*
- *in concordanta cu standard DIN 6450*





UNIOR

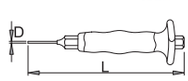
	D	L				
601711	2	150	65	4B	10	**17,95**
601712	3	150	44	4B	10	**17,95**
601713	4	150	73	4B	10	**17,95**
601714	5	150	73	4B	10	**17,95**
601715	6	150	78	4B	10	**17,95**
601716	7	150	108	4B	10	**17,95**
601717	8	150	115	4B	10	**20,14**
601719	10	150	126	4B	10	**20,14**

641/6HS

Dorn cu maner de protectie

- *material: crom vanadiu*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *maner ergonomic rezistent bimaterial*
- *in concordanta cu standard DIN 6450*





UNIOR

	D	L				
619759	2	150	81	4B	10	**32,93**
619760	3	150	76	4B	10	**32,98**
619761	4	150	79	4B	10	**32,98**
619762	5	150	83	4B	10	**32,98**
619763	6	150	86	4B	10	**32,98**
619764	8	150	99	4B	10	**32,98**

641/6HSPB

Set de priboaie cu maner in cutie de plastic

- *dimensiunea cutiei : 197 x 167 x 47*



UNIOR

620066	2 - 8 / 6	680	1G	1	**244,00**

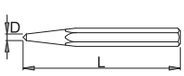
641/6HS (2, 3, 4, 5, 6, 8),
981PBM1 (197 x 167 x 47)

642/6

Punctator

- *material: crom vanadiu*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *in conformitate cu standard DIN 7250*





UNIOR

	D	L				
601724	3	100	38	4B	10	**12,79**
601725	4	120	70	4B	10	**13,67**
601726	5	120	70	4B	10	**14,93**

642A

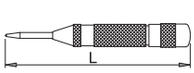
Punctator automat

- *scula din otel*
- *dorn interschimbabil, tratat*
- *acoperire prin nichelare*

Avantaje:

- *mecanism de percutie , activat prin presare descendenta*
- *forta reglabila*





UNIOR

		L				
616810	60 - 130	125	70	4A	1	**190,35**

642.1A

Cap de schimb pentru 642A



UNIOR

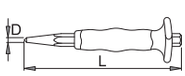
616811	10	1E	10	**45,68**

642/6HS

Punctator cu maner de protectie

- *material: crom vanadiu*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire:vopsire*
- *maner ergonomic rezistent bimaterial*
- *in conformitate cu standard DIN 7250*





UNIOR

	D	L				
620117	4	120	83	4B	10	**27,39**
620118	5	120	83	4B	10	**29,53**

645

Set de dalti si punctatoare



UNIOR

601739	6	525	1S	1	**147,10**

640/6 (2, 4, 6), **642/6** (3),
660/6A (125), **670/6A** (125)

646

Set de dornuri si punctatoare



UNIOR

601737	6	515	1S	1	**109,40**

640/6 (2, 3, 4, 5, 6), **642/6** (3)

646A

Set de dornuri si punctatoare



№					
620178 646A	3	260	1S	1	50,74

640/6 (4), 642/6 (3, 4)

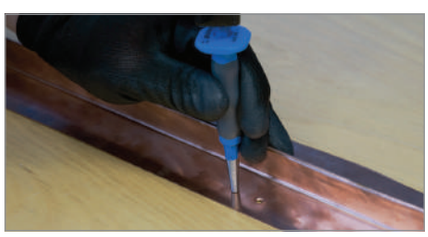
647

Set de punctatoare



601738	2 - 8 / 6	575	1S	1	138,05

641/6 (2, 3, 4, 5, 6, 8)



647A

Set de dornuri



620176	3 - 5 / 3	283	1S	1	63,97

641/6 (3, 4, 5)

647B

Set de dornuri



620177	6 - 10 / 3	390	1S	1	68,15

641/6 (6, 8, 10)

771

Preducea cu maner

- *preducea manuala cu forma conica*
- *DIN 7200, Forma A*
- *acoperire: vopsire*



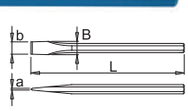
Ø	mm			
7710020	2	100	10	41	49,65
7710030	3	100	10	43	49,65
7710040	4	100	10	43	49,65
7710050	5	100	10	56	49,65
7710060	6	100	10	56	49,65
7710070	7	100	10	50	51,38
7710080	8	112	10	82	51,38
7710090	9	112	10	79	53,19
7710100	10	115	10	78	60,26
7710110	11	122	10	107	68,03
7710120	12	122	10	107	73,02
7710130	13	135	10	107	84,32
7710140	14	135	10	148	87,24
7710150	15	135	10	144	96,80
7710160	16	135	10	144	105,61
7710170	17	135	5	141	113,10
7710180	18	143	5	185	121,63
7710190	19	143	5	185	128,36
7710200	20	155	5	180	145,00
7710220	22	155	5	256	165,18
7710250	25	168	5	363	196,38
7710300	30	175	1	425	297,83

660/6

Dalta lata

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *executie conform standardului DIN 6453*





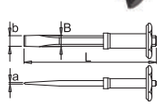
L	a x b	B				
604267	100	16 x 3	16	90	1P	10	27,87
601732	150	19 x 3	19	183	1P	10	32,01
604242	175	22 x 3	22	283	1P	10	39,06
601733	200	24 x 3	24	388	1P	10	43,00
601734	250	26 x 4	24	506	1P	10	50,64

660/6HS

Dalta lata cu maner de protectie

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *executie conform standardului DIN 6453*





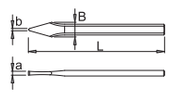
L	a x b	B				
608484	250	26 x 4	24	615	1E	5	73,26

670/6

Dalta cruce

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *conform cu standardul DIN 6541*





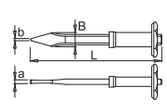
L	a x b	B				
601747	150	6 x 2	23	172	1P	10	39,06
601748	200	7 x 3	30	302	1P	10	49,57
601749	250	9 x 4	30	465	1P	10	59,20

670/6HS

Dalta cruce cu maner de protectie

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *conform cu standardul DIN 6541*





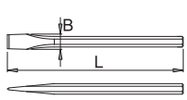
L	a x b	B				
608485	250	9 x 4	30	545	1E	5	80,65

660/6A

Dalta de lemn

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *executie conform standardului DIN 7254*





L	⬢	B				
608554	125	10	12	76	1P	10	26,66
608492	250	16	23	403	1P	10	45,82
608493	300	18	26	612	1P	10	56,33
608494	350	18	26	724	1P	5	64,36
608495	400	20	30	1019	1P	5	80,02
608496	500	20	30	1236	1P	5	98,26

660/6AHS

Dalta cu maner de protectie pentru zidarie

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *executie conform standardului DIN 7254*



UNIOR

	L		B				
608497	250	16	23	529	1E	5	**64,36**
608498	300	18	26	758	1E	5	**75,35**
608499	350	18	26	848	1E	5	**83,52**

671HS

Maner universal pentru dalti



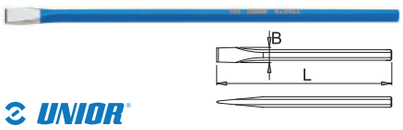
UNIOR

608672	139	1E	1	**21,89**

665/6A

Dalta pentru electricieni

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*



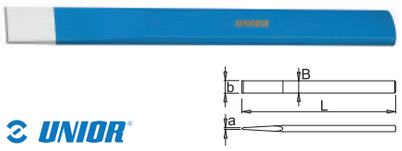
UNIOR

	L		B				
608500	250	8	10	110	1P	10	**27,34**
608501	250	10	10	160	1P	10	**30,35**

666/6A

Dalta lata

- *material:material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*



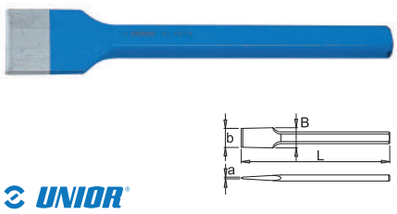
UNIOR

	L	a x b	B				
603477	240	28 x 3	28	315	1P	10	**47,62**

667/6A

Dalta zidarie

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*



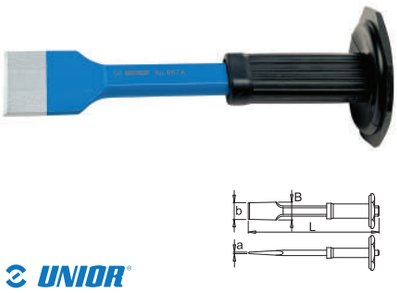
UNIOR

	L	a x b	B				
608671	250	50 x 4	50	480	1P	5	**78,27**

667/6AHS

Dalta zidarie cu maner de protectie

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*



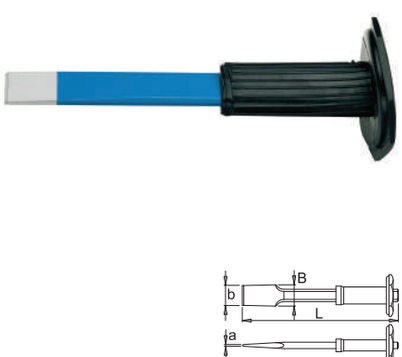
UNIOR

	L	a x b	B				
609286	250	50 x 4	50	625	1E	5	**102,50**

666/6AHS

Dalta lata cu maner de protectie

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*



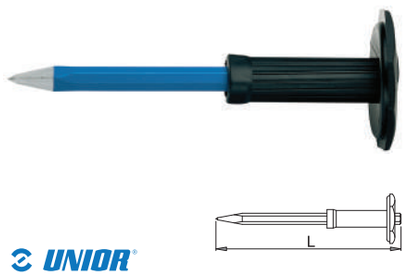
UNIOR

	L	a x b	B				
608503	240	28 x 3	28	459	1E	5	**66,64**

670/6AHS

Dalta ascutita cu maner de protectie

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *executie in conformitate cu standardul DIN 7256*



UNIOR

	L					
608489	250	16	532	1E	5	**61,29**
608490	300	18	713	1E	5	**71,12**
608491	350	18	784	1E	5	**75,35**

675

Set de dalti si punctatoare



UNIOR

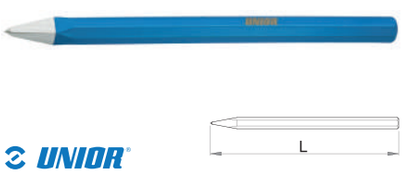
611998	100	14600	1K	1	**2817,32**

640/6 (2, 3, 4, 5, 6), 641/6 (2, 4, 5, 6, 8), **642/6** (4, 5), **660/6** (100, 150, 200, 250, 175), **670/6** (150, 200, 250), **980F** (410)

670/6A

Dalta ascutita

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *executie in conformitate cu standardul DIN 7256*



UNIOR

	L					
608555	125	10	72	1P	10	**26,66**
604174	250	16	390	1P	10	**42,32**
608486	300	18	578	1P	10	**52,44**



TOPOARE

Tovarna Kos

Compania din Tovarna Kos din Srpov a fost infiintata in 1881 de catre Heinrich Kieffer. In acest sens, a devenit un pionier al productiei industriale de unelte agricole din Europa. Peste de 135 de ani de experienta si traditie in acest mestesug au dus la cresterea calitatea si rezistentei produselor. In ultimii ani sa realizat un program de investitii si modernizare continua, pentru a raspunde cerintelor si asteptarilor crescande ale clientilor nostri.

tovarna kos in srpov since 1881

60231700

Topor de camping si drumetie

- *tratat termic*
- *nivel ridicat de calitate si versatilitate*
- *poate fi folosit in gospodarie, in padure, pentru ramuri mai mici, pentru camping etc.*
- *maner din lemn de frasin*



	Dimensiune	Lungime totala	Ambalare	
60231700	0,3 kg	320 mm	1	**108,79**

60110205

Topor de despicat

- *realizat din otel de inalta calitate, calit, lustruit si polisat*
- *maner de lemn, cu o lungime de 800 mm*
- *maner cu o protectie de inalta calitate impotriva impactului*



	Greutate	Dimeniuni cap	Lungime totala	Ambalare	
60110205	2,0 kg	90x193mm	800 mm	1	**188,00**

Topor uz gospodaresc

- *material: compozitie speciala pentru a fi tratata termic,forjata*
- *tratat termic*
- *vopsit*
- *maner din lemn de frasin, anti-alunecare vopsit*



	Greutate	Dimeniuni cap	Lungime totala	Ambalare	
60120900	0,6 kg	105x155 mm	360 mm	1	**100,01**
60121000	0,8 kg	120x170 mm	380 mm	1	**103,40**
60121500	1,0 kg	122x172 mm	400 mm	1	**110,33**

60110605

Topor de despicat

- *realizat din otel de inalta calitate, calit, lustruit si polisat*
- *maner de lemn, cu o lungime de 700 mm*
- *maner cu o protectie de inalta calitate impotriva impactului*



	Greutate	Dimeniuni cap	Lungime totala	Ambalare	
60110605	1,7 kg	100x160 mm	700 mm	1	**176,29**

60122000

Topor de zidar

- *material: compozitie speciala pentru a fi tratata termic,forjata*
- *tratat termic*
- *vopsit*
- *maner din lemn de frasin, anti-alunecare vopsit*



	Greutate	Dimeniuni cap	Lungime totala	Ambalare	
60122000	0,8 kg	112x155 mm	380 mm	1	**116,50**



60110900

Topor de despicat si pozitionat busteni

- *realizat din otel de inalta calitate, calit, lustruit si polisat*
- *maner de lemn, cu o lungime de 950 mm*
- *ideal pentru pozitionarea si despicarea bustenilor*



	Greutate	Dimeniuni cap	Lungime totala	Ambalare	
60110900	3,0 kg	75x205 mm	950 mm	1	**188,62**

60176000

Secure padurar

- *realizat din otel de inalta calitate, calit, lustruit si polisat*
- *maner de lemn, cu o lungime de 950 mm*
- *ideal pentru divese activitati forestiere*



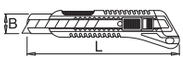
	Greutate	Dimeniuni cap	Lungime totala	Ambalare	
60156000	1,5 kg	174x170 mm	900 mm	1	**182,14**
60166000	1,8 kg	183x176 mm	950 mm	1	**196,17**
60176000	2,0 kg	193x176 mm	950 mm	1	**200,17**

556B

Cutter

- *maner bimaterial*
- *8 lame interschimbabile automat interioare*
- *lama cu 13 lame de schimb*
- *lama din otel carbon aliat*





UNIOR

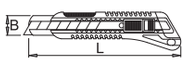
	L	B				
612136	160	18	167	4A	10	32,49

556A

Cutter

- *maner bimaterial*
- *3 lame interschimbabile automat in interior*
- *lama cu 13 lame de schimb*
- *lama din otel carbon aliat*





UNIOR

	L	B				
616853	160	18	99	4A	10	15,18

556.1B

Set de 10 lame de schimb pentru cutter 556 A si 556B

- *lama poate fi deplasata cu sistemul de blocare avansat*
- *cand lama este uzata, poate fi inlocuita*
- *cand ultima lama s-a uzat, partea ramasa din lama poate fi schimbata prin impingerea inainte a sistemului de blocare*
- *noua lama poate fi introdusa prin impingerea sistemului de blocare inapoi*



UNIOR

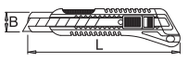
	L	B				
612137	140	18	75	1S	10	16,44

7556A

Cutter

- *maner din plastic*
- *lama segmentata din otel carbon aliat, cu 13 segmente*





KRONUS® Professional Quality

	L	B		
621765	160	18	110	6,45

7556/2AS

Cutter KRONUS 160 mm cu set 10 lame schimb pentru cutter SK4

- *maner din plastic*
- *lama segmentata din otel carbon aliat, cu 13 segmente*



KRONUS® Professional Quality

	L	B		
699770	160	18	195	14,75

7556/1AS

Cutter KRONUS 160 mm cu set 10 lame schimb pentru cutter C60

- *maner din plastic*
- *lama segmentata din otel carbon aliat, cu 13 segmente*



KRONUS® Professional Quality

	L	B		
699768	160	18	195	12,07

7556/12AS

Cutter KRONUS 160 mm cu set 10 lame schimb pentru cutter C60 si set 10 lame schimb pentru cutter SK4

- *maner din plastic*
- *lama segmentata din otel carbon aliat, cu 13 segmente*



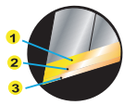
KRONUS® Professional Quality

	L	B		
699769	160	18	195	21,32

7556.1 SK4

Set 10 lame de cutter SK4

- *material: otel SK4*
- *set 10 lame cu 13 segmente*



Design special
Trei muchii de taiere
Cu 50% mai acutita
Ramane de 3 ori mai mult timp ascutita



KRONUS® Professional Quality

	L	B	I		
699766	100	18	5	110	7,66

7556.1 C60

Set 10 lame de cutter C60

- *material: otel C60*
- *set 10 lame cu 13 segmente*



KRONUS® Professional Quality

	L	B	I		
699767	100	18	5	110	5,17

7556C

Cutter cu lama trapezoidala retractabila

- *maner ABS*
- *sina metalica*
- *lama trapezoidala retractabila*



KRONUS® Professional Quality

	L	B		
7556C	160	18	95	8,63

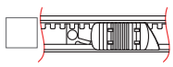
7556D

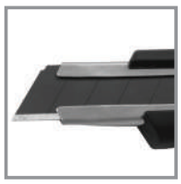
Cutter universal Snap Off 18 mm

- *material maner: ABS cauciucat*
- *lama segmentata din otel aliat SK2, cu 13 segmente*
- *ideal pentru utilizare la birou sau acasa*
- *ghidaj al lamei din inox*
- *sistem de blocare a lamei*
- *magazie cu 2 lame suplimentare*









Sina matalica si manerul ABS formeaza o scula robusta si sigura



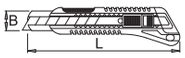
Buton mare pentru fixarea lamei in una din cele 15 pozitii



Gaura pentru prinderea pe un cordon de siguranta



Magazie glisanta pentru 2 lame suplimentare (SK2)



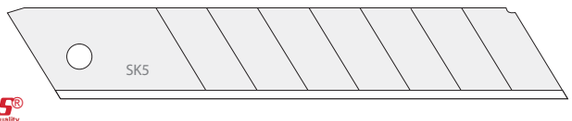
KRONUS® Professional Quality

	L	A	G	
900632	160	18	110	**18,13**

7556.1 SK5

Set 10 lame de cutter SK5

- *material: otel SK5*
- *set 10 lame cu 13 segmente*
- *se livreaza in cutie din plastic*
- *aplicatii: hartie, carton gros, plastic, furtunuri, burete, foi de nailon, tuburi din plastic, garnituri etc.*



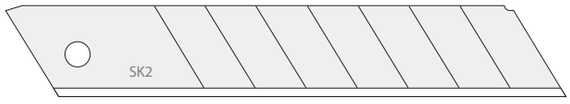
KRONUS® Professional Quality

	L	A	I	G	
900638	100	18	5	110	**5,44**

7556.1 SK2

Set 10 lame de cutter SK2

- *material: otel SK2*
- *set 10 lame cu 13 segmente*
- *se livreaza in cutie din plastic*
- *aplicatii: hartie, carton gros, plastic, furtunuri, burete, foi de nailon, tuburi din plastic, garnituri etc.*



KRONUS® Professional Quality

	L	A	I	G	
600639	100	18	5	110	**6,57**

7556.1 SK2H

Set 10 lame de cutter SK2H

- *material: otel SK2H*
- *set 10 lame cu 13 segmente*
- *se livreaza in cutie din plastic*
- *aplicatii: hartie, carton gros, plastic, furtunuri, burete, foi de nailon, tuburi din plastic, garnituri etc.*



KRONUS® Professional Quality

	L	A	I	G	
900640	100	18	5	110	**13,60**

EDMACOUP®

Scula mutifunctionala masurare, trasare, taiere

- *Instrumentul ideal pentru taierea placilor de gips-carton rapid si in siguranta*
- *masurare, marcare, taiere cu un singur instrument usor de utilizat*
- *ruleta de 3 m x 25 mm*
- *suport creion incorporat pentru a marca o linie de taiere sau un cerc pe orice tip de material (inclusiv creion)*
- *cutter utilitar incorporat pentru taierea placilor de gips-carton*
- *magazie de depozitare pentru lamele de schimb (include 5 lame)*
- *maner bi-material*







EDMA

	G	
260897	381	**292,79**

556C

Cutter retractabil

- *maner bimaterial*
- *lama din otel carbon aliat*
- *sistem de retragere automata a lamei la terminarea lucrului*



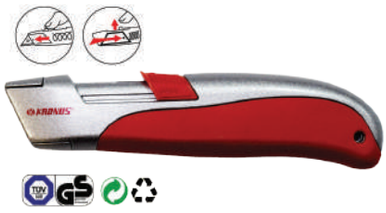
UNIOR

	L	B		
622012	160	18	95	15,28

7556SS

Cutter cu dubla securitate autoretractabil cu set 10 lame SK5

- *securitate maxima, lama se retrage automat in momentul in care nu mai este in contact cu materialul de taiat*
- *poate fi folosit atat cu mana dreapta cat si cu mana stanga*
- *schimbare rapida a lamei*





Chiar si in situatia in care culisorul este in pozitie de taiere, lama se va retrage automat cand nu mai este in contact cu materialul de taiat.





Comutati butonul in pozitia "change", manevrati culisorul inainte, eliberati lama uzata, montati o lama noua in locas si actionati din nou butonul in pozitia de blocare.

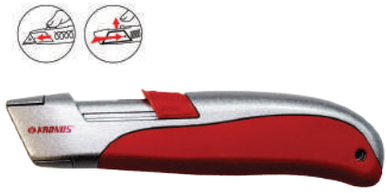
KRONUS® Professional Quality

	L	B		
7556SS	160	18	220	41,96

7556SS

Cutter cu dubla securitate autoretractabil in husa PVC

- *securitate maxima, lama se retrage automat in momentul in care nu mai este in contact cu materialul de taiat*
- *poate fi folosit atat cu mana dreapta cat si cu mana stanga*
- *schimbare rapida a lamei*



KRONUS® Professional Quality

	L	B		
900354	160	18	220	35,99

7556S

Cutter de securitate autoretractabil

- *material: aliaj zinc*
- *dimensiuni: 167 x 35,5 x 23 mm*
- *1 lama otel SK 4; design special*
- *3 muchii de taiere; cu 50% mai ascutita fata de lamele C60*



KRONUS® Professional Quality

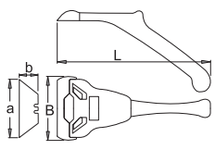
	L	B		
7556S	167	18	197	17,90

1945

Razuitor multifunctional cu protectie a lamei

- *material: plastic*
- *lama din otel carbon aliat*
- *cu protectie a lamei*
- *datorita suprafetei mari active scula curata uniform pe intreaga suprafata. Este recomandata pentru inlaturarea chitului siliconic din capul motorului, etansari si curatarea vignete*





UNIOR

	L	B	a x b				
620240	165	70	60.8x18.9	37	1S	1	9,58

1945.1

Set de 5 lame pentru 1945



UNIOR

621042	33	1S	1	6,32

7556.05T

Set 5 lame trapezoidale

- *material: otel SK5*
- *dimensiune: 61x19x0,6 mm*



KRONUS® Professional Quality

	L	A	I	
900334	60	19	0,6	3,55

7556.10T

Set 10 lame trapezoidale

- *material: otel SK5*
- *dimensiune: 61x19x0,6 mm*



KRONUS® Professional Quality

	L	A	I	
900335	60	19	0,6	6,34

7556.05H

Set 5 lame tip carlig

- *material: otel C60*
- *dimensiune: 48x19x0,6 mm*



KRONUS® Professional Quality

	L	A	I	
900336	48	19	0,6	7,47

7556.10C

Set 10 lame trapezoidale cu gaura

- *material: otel C60*
- *dimensiune: 60x19x0,6 mm*



KRONUS® Professional Quality

	L	A	I	
900434	60	19	0,6	5,04

7556F.1

Cleste multifunctional cu 9 operatii

- material: inox 420
- maner de aluminiu
- lungime 16.5 cm
- surubelnita profil cruciform
- surubelnita lata mare
- surubelnita lata mica
- cutit lama dreapta
- pila pentru lemn si metal
- lama cutit ascutit
- perforator piele
- cleste normal
- falci taiat cabluri
- desfacator conserve
- cutit



KRONUS® Professional Quality

	L	
900367	165	55,75

7556F.2

Briceag pliabil cu lama din inox

- material: inox 420
- maner de aluminiu



KRONUS® Professional Quality

	L	
900368	165	31,70

7556F

Set cleste multitool cu briceag

- material: inox 420
- maner de aluminiu
- lungime 16.5 cm
- surubelnita profil cruciform
- surubelnita lata mare
- surubelnita lata mica
- cutit lama dreapta
- pila pentru lemn si metal
- lama cutit ascutit
- perforator piele
- cleste normal
- falci taiat cabluri
- desfacator conserve
- cutit





KRONUS® Professional Quality

	L	
7556F	165	80,33

7556F.1 Display

Cleste multifunctional cu 9 operatii

- material: inox 420
- maner de aluminiu
- lungime 16.5 cm
- surubelnita profil cruciform
- surubelnita lata mare
- surubelnita lata mica
- cutit lama dreapta
- pila pentru lemn si metal
- lama cutit ascutit
- perforator piele
- cleste normal
- falci taiat cabluri
- desfacator conserve
- cutit



KRONUS® Professional Quality

	Componenta	
900367D	24 piese	1337,95

7556F.2 Display

Expozitor bricege pliabile (48 buc)

- material: inox 420
- maner de aluminiu



KRONUS® Professional Quality

	Componenta	
900368D	48 piese	1521,63

- material: inox 420 , maner de aluminiu
- lungime deschis: 16.5 cm



7556F.1

Set multitool, briceag si set de manichiura

- material: inox 420
- maner de aluminiu



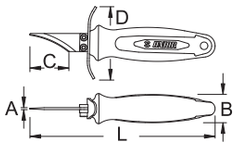
KRONUS® Professional Quality

	Componenta	
900464	7556F.1 , 7556F.2; 900465	122,47

556G

Cutit cu maner bimaterial





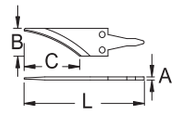
UNIOR

	A	B	C	D	L				
622330	2	29	38	72	185	190	1F	1	70,10

556.1G

Lama de rezerva pentru cutit cu maner bimaterial





UNIOR

	A	B	C	L			
622331	2	18	38	83	11	1E	1	14,89

7556G

Cleste multifunctional cu 9 operatii

- *material: inox 420 , maner de aluminiu*
- *lungime inchis: 12,8 mm*
- *cleste cu varf lung*
- *cleste taiat cabluri*
- *gaura agatare*
- *surubelnita lata mare*
- *surubelnita lata mica*
- *desfacator de sticle*
- *pila*
- *desfacator de conserve*
- *surubelnita Philip*
- *perforator*
- *cutit cu lama zimtata*



KRONUS® Professional Quality

	L	
900369	165	76,44

7556G Display

Expozitor cleste multitool (6 buc)



KRONUS® Professional Quality

	Componente	
900493	6	458,64

7556E

Briceag cutit + cutter cu lama trapezoidala pliabil

- *design pliabil*
- *lungime inchis: 10.5 cm*
- *greutate: 150g*
- *cu lama trapezoidala*
- *mecanism de schimbare rapida a lamei*
- *maner din aluminiu si cauciuc*
- *lama cutit inox 3CR13*
- *corp scheletic pentru a fi un instrument usor*





KRONUS® Professional Quality

	L	
7556E	105	48,21





POANSOANE SI SABLOANE

O mai mare rezistenta

Domeniile de aplicare ale poansoanelor sunt foarte diverse. Poansoanele din otel si instrumentele de marcare sunt ideale in special in industria de automobile in productia de masini-unelte si a sculelor. Imprimarea clara a caracterelor, pictogramele importante, precizia ridicata si durata lunga de viata fac distinctia dintre poansoanele din otel de calitate "Made in Germany" si alte produse din piata.

UNIOR

GRAVUREM

642LPB

Set poansoane litere mari

- *material: otel carbon de scule*
- *acoperire: uleiere anticoroziva*
- *set de 27 poansoane cu litere de la A la Z si semnul &*



UNIOR

	Inaltime caracter		
620944	4,0	650	**175,22**
620945	6,0	1240	**211,31**
620946	8,0	1850	**285,25**
620947	10,0	2405	**379,29**

Gravurem-S

Set poansoane litere mari

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 600-800 N/mm²*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *fond caracter dreptunghiular, corp litera normal*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 27 poansoane cu litere de la A la Z si semnul &*



GRAVUREM

	Inaltime	Dimensiuni		
10101000	1	6 x 6 x 65	500	**186,69**
10101500	1,5	6 x 6 x 65	500	**123,53**
10102000	2	6 x 6 x 65	500	**123,53**
10102500	2,5	6 x 6 x 65	500	**128,59**
10103000	3	6 x 6 x 65	500	**128,59**
10104000	4	7 x 7 x 65	600	**137,24**
10105000	5	8 x 8 x 65	800	**147,83**
10106000	6	9 x 9 x 75	1200	**165,43**
10107000	7	11 x 11 x 76	1850	**228,37**
10108000	8	11 x 11 x 76	1850	**228,37**
10110000	10	12 x 12 x 80	2300	**303,60**
10112000	12	14 x 14 x 80	3100	**358,28**
10115000	15	16 x 16 x 85	4300	**563,67**
10116000	16	16 x 16 x 85	4300	**563,67**

Gravurem-T

Set poansoane litere mari

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 1200 N/mm²*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *duritatea cozii: 38-46 HRC*
- *fond caracter circular, corp litera normal*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 27 poansoane cu litere de la A la Z si semnul &*



GRAVUREM

	Inaltime	Dimensiuni		
13101000	1	7 x 7 x 75	750	**341,85**
13101500	1,5	7 x 7 x 75	750	**251,19**
13102000	2	7 x 7 x 75	750	**251,19**
13102500	2,5	7 x 7 x 75	750	**276,58**
13103000	3	8 x 8 x 75	1000	**276,58**
13104000	4	8 x 8 x 75	1000	**301,74**
13105000	5	9 x 9 x 80	1300	**324,01**
13106000	6	11 x 11 x 76	1900	**356,33**
13108000	8	12 x 12 x 85	2400	**527,38**
13110000	10	14 x 14 x 90	3600	**792,20**

Gravurem Nr. 1 extra-extra

Set poansoane litere mari

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 1200 N/mm²*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *fond caracter dreptunghiular, corp litera normal*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 27 poansoane cu litere de la A la Z si semnul &*



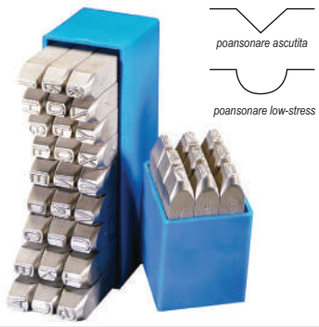
GRAVUREM

	Inaltime	Dimensiuni		
11101000	1	7 x 7 x 75	750	**412,10**
11101500	1,5	7 x 7 x 75	750	**274,17**
11102000	2	7 x 7 x 75	750	**274,17**
11102500	2,5	7 x 7 x 75	750	**288,42**
11103000	3	8 x 8 x 75	1000	**288,42**
11104000	4	9 x 9 x 80	1300	**302,60**
11105000	5	10 x 10 x 80	1600	**323,15**
11106000	6	12 x 12 x 85	2400	**413,19**
11107000	7	14 x 14 x 90	3500	**500,58**
11108000	8	14 x 14 x 90	3500	**541,40**
11110000	10	16 x 16 x 90	4500	**676,30**
11112000	12	18 x 18 x 100	6400	**802,71**
11115000	15	18 x 18 x 100	6400	**1209,05**
11116000	16	18 x 18 x 100	6400	**1209, 05**

Gravurem-R

Set poansoane litere mari

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 1200 N/mm²*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *duritatea cozii: 38-46 HRC*
- *fond caracter dreptunghiular, corp litera roman*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 27 poansoane cu litere de la A la Z si semnul &*



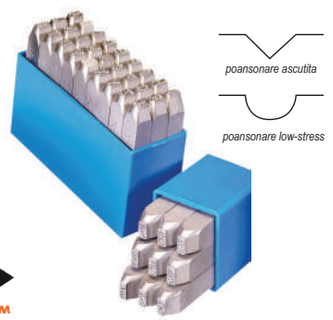
GRAVUREM

	Inaltime	Dimensiuni		
14102000	2	7 x 7 x 75	750	**366,62**
14103000	3	8 x 8 x 75	1000	**384,92**
14104000	4	9 x 9 x 80	1300	**403,38**
14105000	5	10 x 10 x 80	1600	**436,40**
14106000	6	12 x 12 x 85	2400	**552,45**
14108000	8	14 x 14 x 90	3500	**716,72**
14110000	10	16 x 16 x 90	4500	**901,78**

Gravurem-RP

Set poansoane litere mari

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 1200 N/mm²*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *duritatea cozii: 38-46 HRC*
- *fond caracter dreptunghiular, corp litera roman*
- *imprimarea caracterului: puncte*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 27 poansoane cu litere de la A la Z si semnul &*



GRAVUREM

	Inaltime	Dimensiuni		
14402000	2	7 x 7 x 75	750	**366,62**
14403000	3	8 x 8 x 75	1000	**384,92**
14404000	4	9 x 9 x 80	1300	**403,38**
14405000	5	10 x 10 x 80	1600	**436,40**
14406000	6	12 x 12 x 85	2400	**552,45**
14408000	8	14 x 14 x 90	3500	**716,72**
14410000	10	16 x 16 x 90	4500	**901,78**

Gravurem-Sonderklasse

Set poansoane litere mari

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 1500 N/mm²*
- *fabricate in conformitate cu DIN 7353*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *duritatea cozii: 38-46 HRC*
- *fond caracter dreptunghiular, corp litera normal*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 27 poansoane cu litere de la A la Z si semnul &*



	Inaltime	Dimensiuni		
12101000	1	7 x 7 x 75	750	**549,34**
12101500	1,5	7 x 7 x 75	750	**366,62**
12102000	2	7 x 7 x 75	750	**366,62**
12102500	2,5	7 x 7 x 75	750	**384,99**
12103000	3	8 x 8 x 75	100	**384,99**
12104000	4	9 x 9 x 80	1300	**403,30**
12105000	5	10 x 10 x 80	1600	**436,40**
12106000	6	12 x 12 x 85	2400	**552,45**
12107000	7	14 x 14 x 90	3500	**675,59**
12108000	8	14 x 14 x 90	3500	**752,63**
12110000	10	16 x 16 x 90	4500	**901,78**
12112000	12	18 x 18 x 100	6400	**1084,82**
12115000	15	18 x 18 x 100	6400	**1611,57**
12116000	16	18 x 18 x 100	6400	**1611,57**
12118000	18	23 x 15 x 100	7200	**2269,77**
12120000	20	23 x 15 x 100	7200	**2538,00**

750

Dispozitiv poansonare pentru poansoane de pana la 20 mm

- *permite o distanta sigurs intre capul de lovire si mana muncitorului*
- *evita ranirea prin alunecarea poansonului sau a defectiunilor*
- *constructie metalica robusta si durabila pentru uz industrial greu*
- *dispozitiv de schimbare rapida cu blocare cu arc*
- *potrivit pentru toate poansoanele manuale cu o sectiune transversala maxima*





	Capacitate maxima de prindere	
75000000	20 x 20 mm	**193,08**

Gravurem-S

Set poansoane litere mici

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 600-800 N/mm²*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *fond caracter dreptunghiular, corp litera normal*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 27 poansoane cu litere de la A la Z si . (punct)*



	Inaltime	Dimensiuni		
10201000	1	6 x 6 x 65	500	**248,39**
10201500	1,5	6 x 6 x 65	500	**164,34**
10202000	2	6 x 6 x 65	500	**164,34**
10202500	2,5	6 x 6 x 65	500	**171,05**
10203000	3	6 x 6 x 65	500	**171,05**
10204000	4	7 x 7 x 65	600	**182,57**
10205000	5	8 x 8 x 65	800	**196,67**
10206000	6	9 x 9 x 75	1200	**220,03**
10207000	7	11 x 11 x 76	1850	**303,76**
10208000	8	11 x 11 x 76	1850	**303,76**
10210000	10	12 x 12 x 80	2300	**403,85**
10212000	12	14 x 14 x 80	3100	**476,52**
10215000	15	16 x 16 x 85	4300	**749,75**
10216000	16	16 x 16 x 85	4300	**749,75**

Gravurem Nr. 1 extra-extra

Set poansoane litere mici

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 1200 N/mm²*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *fond caracter dreptunghiular, corp litera normal*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 27 poansoane cu litere de la A la Z si . (punct)*



	Inaltime	Dimensiuni		
11201000	1	7 x 7 x 75	750	**549,34**
11201500	1,5	7 x 7 x 75	750	**366,31**
11202000	2	7 x 7 x 75	750	**366,31**
11202500	2,5	7 x 7 x 75	750	**383,90**
11203000	3	8 x 8 x 75	1000	**383,90**
11204000	4	9 x 9 x 80	1300	**137,24**
11205000	5	10 x 10 x 80	1600	**455,56**
11206000	6	12 x 12 x 85	2400	**551,36**
11207000	7	14 x 14 x 90	3500	**664,23**
11208000	8	14 x 14 x 90	3500	**718,36**
11210000	10	16 x 16 x 90	4500	**902,10**
11212000	12	18 x 18 x 100	6400	**1071,12**
11215000	15	18 x 18 x 100	6400	**1610,48**
11216000	16	18 x 18 x 100	6400	**1610,48**

Gravurem-Sonderklasse

Set poansoane litere mari

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 1500 N/mm²*
- *fabricate in conformitate cu DIN 7353*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *duritatea cozii: 38-46 HRC*
- *fond caracter dreptunghiular, corp litera normal*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 27 poansoane cu litere de la A la Z si . (punct)*



	Inaltime	Dimensiuni		
12201000	1	7 x 7 x 75	750	**487,97**
12201500	1,5	7 x 7 x 75	750	**487,97**
12202000	2	7 x 7 x 75	750	**487,97**
12202500	2,5	7 x 7 x 75	750	**513,04**
12203000	3	8 x 8 x 75	1000	**513,04**
12204000	4	9 x 9 x 80	1300	**539,22**
12205000	5	10 x 10 x 80	1600	**579,56**
12206000	6	12 x 12 x 85	2400	**735,65**
12207000	7	14 x 14 x 90	3500	**891,50**
12208000	8	14 x 14 x 90	3500	**927,73**
12210000	10	16 x 16 x 90	4500	**1202,35**
12212000	12	18 x 18 x 100	6400	**1428,23**
12215000	15	18 x 18 x 100	6400	**2144,72**
12216000	16	18 x 18 x 100	6400	**2144,72**

642NPB

Set poansoane cifre

- *material: otel carbon de scule*
- *acoperire: uleiere anticoroziva*
- *set de 9 poansoane cu cifre de la 0 la 9*



	Inaltime caracter		
620940	4,0	22	**58,42**
620941	6,0	420	**70,54**
620942	8,0	643	**97,29**
620943	10,0	800	**129,40**

Gravurem-S

Set poansoane cifre

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 600-800 N/mm²*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *fond caracter dreptunghiular, corp litera normal*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 9 poansoane cu cifre de la 0 la 9*



	Inaltime	Dimensiuni		
10001000	1	6 x 6 x 65	150	**62,23**
10001500	1,5	6 x 6 x 65	150	**41,28**
10002000	2	6 x 6 x 65	150	**41,28**
10002500	2,5	6 x 6 x 65	150	**43,00**
10003000	3	6 x 6 x 65	150	**43,00**
10004000	4	7 x 7 x 65	200	**45,80**
10005000	5	8 x 8 x 65	300	**51,48**
10006000	6	9 x 9 x 75	400	**55,23**
10007000	7	11 x 11 x 76	600	**76,18**
10008000	8	11 x 11 x 76	600	**76,18**
10010000	10	12 x 12 x 80	800	**101,41**
10012000	12	14 x 14 x 80	1100	**119,64**
10015000	15	16 x 16 x 85	1500	**211,31**
10016000	16	16 x 16 x 85	1500	**211,31**

Gravurem-T

Set poansoane cifre

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 1200 N/mm²*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *duritatea cozii: 38-46 HRC*
- *fond caracter circular, corp litera normal*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 9 poansoane cu cifre de la 0 la 9*



	Inaltime	Dimensiuni		
13001000	1	7 x 7 x 75	250	**114,10**
13001500	1,5	7 x 7 x 75	250	**83,80**
13002000	2	7 x 7 x 75	250	**83,80**
13002500	2,5	7 x 7 x 75	250	**92,07**
13003000	3	8 x 8 x 75	300	**92,07**
13004000	4	8 x 8 x 75	300	**100,87**
13005000	5	9 x 9 x 80	450	**107,87**
13006000	6	11 x 11 x 76	600	**119,01**
13008000	8	12 x 12 x 85	800	**176,10**
13010000	10	14 x 14 x 90	1200	**264,42**

Gravurem-R

Set poansoane cifre

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 1200 N/mm²*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *duritatea cozii: 38-46 HRC*
- *fond caracter dreptunghiular, corp litera roman*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 9 poansoane cu cifre de la 0 la 9*

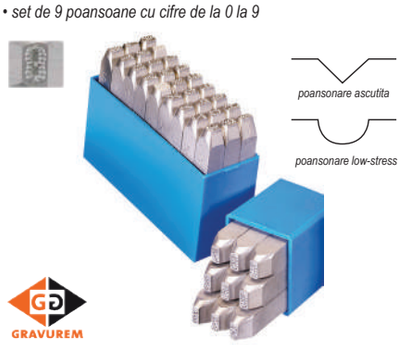


	Inaltime	Dimensiuni		
14002000	2	7 x 7 x 75	250	**122,52**
14003000	3	8 x 8 x 75	300	**128,21**
14004000	4	9 x 9 x 80	300	**148,86**
14005000	5	10 x 10 x 80	450	**145,26**
14006000	6	12 x 12 x 85	600	**184,21**
14008000	8	14 x 14 x 90	800	**236,71**
14010000	10	16 x 16 x 90	1200	**300,88**

Gravurem-RP

Set poansoane cifre

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 1200 N/mm²*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *duritatea cozii: 38-46 HRC*
- *fond caracter dreptunghiular, corp litera roman*
- *imprimarea caracterului: puncte*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 9 poansoane cu cifre de la 0 la 9*



	Inaltime	Dimensiuni		
14302000	2	7 x 7 x 75	250	**122,52**
14303000	3	8 x 8 x 75	300	**128,21**
14304000	4	9 x 9 x 80	300	**151,53**
14305000	5	10 x 10 x 80	450	**145,26**
14306000	6	12 x 12 x 85	600	**184,21**
14308000	8	14 x 14 x 90	800	**236,71**
14310000	10	16 x 16 x 90	1200	**300,88**

Gravurem Nr. 1 extra-extra

Set poansoane cifre

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 1200 N/mm²*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *fond caracter dreptunghiular, corp litera normal*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 9 poansoane cu cifre de la 0 la 9*



	Inaltime	Dimensiuni		
11001000	1	7 x 7 x 75	250	**137,94**
11001500	1,5	7 x 7 x 75	250	**91,44**
11002000	2	7 x 7 x 75	250	**91,44**
11002500	2,5	7 x 7 x 75	250	**96,35**
11003000	3	8 x 8 x 75	300	**96,35**
11004000	4	9 x 9 x 80	450	**100,94**
11005000	5	10 x 10 x 80	550	**109,05**
11006000	6	12 x 12 x 85	800	**137,78**
11007000	7	14 x 14 x 90	1200	**166,99**
11008000	8	14 x 14 x 90	1200	**180,62**
11010000	10	16 x 16 x 90	1500	**225,48**
11012000	12	18 x 18 x 100	2200	**267,71**
11015000	15	18 x 18 x 100	2200	**403,06**
11016000	16	18 x 18 x 100	2200	**403,06**

Gravurem-Sonderklasse

Set poansoane cifre

- *material conform normei DIN CK 45*
- *potrivit pentru marcarea materialului cu o rezistenta la rupere de 1500 N/mm²*
- *fabricate in conformitate cu DIN 7353*
- *tipul caractererului conform DIN 1451*
- *duritatea capului: 58-61 HRC*
- *duritatea cozii: 38-46 HRC*
- *fond caracter dreptunghiular, corp litera normal*
- *imprimarea caracterului: continua*
- *fiecare poanson este marcat cu: caracter, marimea caracterului, "Made in Germany" si simbolul international pentru protectia ochilor*
- *set de 9 poansoane cu cifre de la 0 la 9*



	Inaltime	Dimensiuni		
12001000	1	7 x 7 x 75	250	**183,27**
12001500	1,5	7 x 7 x 75	250	**122,52**
12002000	2	7 x 7 x 75	250	**122,52**
12002500	2,5	7 x 7 x 75	250	**128,21**
12003000	3	8 x 8 x 75	300	**128,21**
12004000	4	9 x 9 x 80	450	**134,67**

	Inaltime	Dimensiuni		
12005000	5	10 x 10 x 80	550	145,26
12006000	6	12 x 12 x 85	800	184,12
12007000	7	14 x 14 x 90	1200	223,15
12008000	8	14 x 14 x 90	1200	248,55
12010000	10	16 x 16 x 90	1500	300,88
12012000	12	18 x 18 x 100	2200	361,63
12015000	15	18 x 18 x 100	2200	569,43
12016000	16	18 x 18 x 100	2200	569,43
12018000	18	23 x 15 x 100	3100	756,53
12020000	20	23 x 15 x 100	3100	845,94

7000A

Set sabloane litere a-z (26 piese)

- *material: tabla zincata*
- *conform DIN 1451*
- *se utilizeaza pentru marcarea cu vopsea*



GRAVUREM

	Inaltime caracter	Ambalare	
7000100A	10	1	107,19
7000150A	15	1	107,19
7000200A	20	1	107,19
7000250A	25	1	107,19
7000400A	40	1	143,52
7000500A	50	1	162,94
7000600A	60	1	192,20
7000700A	70	1	231,21
7000800A	80	1	282,64
7000900A	90	1	402,50
7001000A	100	1	402,50

7000Z

Set sabloane cifre 0-9 (10 piese)

- *material: tabla zincata*
- *conform DIN 1451*
- *se utilizeaza pentru marcarea cu vopsea*



GRAVUREM

	Inaltime caracter	Ambalare	
7000100Z	10	1	44,54
7000150Z	15	1	44,54
7000200Z	20	1	44,54
7000250Z	25	1	44,54
7000300Z	30	1	51,56
7000350Z	35	1	51,56
7000400Z	40	1	58,49
7000500Z	50	1	66,85
7000600Z	60	1	76,62
7000700Z	70	1	93,34
7000800Z	80	1	114,22
7000900Z	90	1	162,94
7001000Z	100	1	162,94
7001200Z	120	1	295,21
7001500Z	150	1	357,88
7001800Z	180	1	557,09
7002000Z	200	1	557,09
7002500Z	250	1	974,88
7003000Z	300	1	1239,43
7004000Z	400	1	1938,56
7005000Z	500	1	2980,29

7000B

Set sabloane litere A-Z

- *material: tabla zincata*
- *conform DIN 1451*
- *se utilizeaza pentru marcarea cu vopsea*
- *seturile d litere mari pana la 150 mm contin caractere A-Z, si "&" (27 piese), de la dimensiunea de 180 mm fara "&" (26 piese)*



GRAVUREM

	Inaltime caracter	Ambalare	
7000100B	10	1	107,21
7000150B	15	1	107,21
7000200B	20	1	107,21
7000250B	25	1	107,21
7000300B	30	1	125,34
7000350B	35	1	125,34
7000400B	40	1	143,47
7000500B	50	1	162,94
7000600B	60	1	192,18
7000700B	70	1	231,21
7000800B	80	1	282,68
7000900B	90	1	402,50
7001000B	100	1	402,50
7001200B	120	1	728,38
7001500B	150	1	877,37
7001800B	180	1	1508,23
7002000B	200	1	1508,23
7002500B	250	1	2885,53
7003000B	300	1	3342,35
7004000B	400	1	5222,42
7005000B	500	1	8035,59

165 Euro Type

Trusa pastile cifre si litere Euro Type

Continut:

A	A	A	B	B	C	C	D	D	E	E	E	E	F	F	G	G	H	H	I
I	I	J	J	K	K	L	L	L	M	M	N	N	N	O	O	O	P	P	Q
R	R	R	S	S	S	T	T	U	U	U	V	V	W	W	X	X	Y	Z	/
/	-	-	.	.	,	,	1	1	1	1	2	2	2	2	3	3	3	4	4
4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	0	0	0

- *in plus setul contine 6 poansoane oarbe*

	Inaltime caracter	Dimensiuni pastile	Capacitate marcator	
16501000	1,0	1,5 x 4,0 x 19,0 mm	19 pastile	2245,36
16501500	1,5	1,5 x 4,0 x 19,0mm	19 pastile	2245,36
16502000	2,0	2,0 x 4,0 x 19,0 mm	14 pastile	2245,36
16502500	2,5	2,5 x 6,0 x 19,0 mm	15 pastile	2245,36
16503000	3,0	3,0 x 6,0 x 19,0 mm	13 pastile	2245,36
16504000	4,0	4,0 x 8,0 x 19,0 mm	10 pastile	2199,37
16505000	5,0	5,0 x 8,0 x 19,0 mm	8 pastile	2199,37

- *suport tip maner*
- *100 pastile din otel cu numere, cifre, semne de punctuatie si 6 pastile oarbe*
- *cheie locas hexagonal si penseta*
- *varianta placata cu nichel (protejata impotriva coroziunii)*
- *cutie din plastic pentru depozitare si transport*



GRAVUREM



Gravurem

MASUS

POANSOANE



Denumire română/germană		Poanson standard GRAVUREM-S		Poanson T GRAVUREM-T		Poanson Nr.1 extra-extra GRAVUREM Nr.1 extra-extra		Poanson R GRAVUREM-R		Poanson RP GRAVUREM-RP		Poanson Special GRAVUREM Sonderklasse	
Material conform nor - mei DIN		CK 45		CK 45		CK 45		CK 45		CK 45		CK 45	
Duritatea capului		58-60HRC		58-60 HRC		58-60 HRC		58-60 HRC		58-60 HRC		58-60 HRC	
Duritatea cozii				38-46 HRC				38-46 HRC		38-46 HRC		38-46 HRC	
Fond literă		Dreptunghiular		Circular		Dreptunghiular		Dreptunghiular		Dreptunghiular		Dreptunghiular	
Corp literă		Normal		Normal		Normal		Roman		Roman		Normal	
Imprimarea caracterului		Continuă		Continuă		Continuă		Continuă		Puncte		Continuă	
Rezistența la rupere a materialului poansonat		600÷800 N/mm2		1200 N/mm2		1200 N/mm2		1200 N/mm2		1200 N/mm2		1500 N/mm2	
Model	Tipodimensiune	COD/Gabarit	Preț/Lei	COD/Gabarit	Preț/Lei	COD/Gabarit	Preț/Lei	COD/Gabarit	Preț/Lei	COD/Gabarit	Preț/Lei	COD/Gabarit	Preț/Lei
Litere mari A-Z şi &	dim 1	101 01000/6×6×65	186,69	131 01000/7×7×75	341,85	111 01000/7×7×75	412,10					121 01000/7×7×75	549,34
	dim 1.5	101 01500/6×6×65	123,53	131 01500/7×7×75	251,19	111 01500/7×7×75	274,17					121 01500/7×7×75	366,62
	dim 2	101 02000/6×6×65	123,53	131 02000/7×7×75	251,19	111 02000/7×7×75	274,17	141 02000/7×7×75	366,62	144 02000/7×7×75	366,62	121 02000/7×7×75	366,62
	dim 2.5	101 02500/6×6×65	128,59	131 02500/7×7×75	276,58	111 02500/7×7×75	288,42					121 02500/7×7×75	384,99
	dim 3	101 03000/6×6×65	128,59	131 03000/7×7×75	276,58	111 03000/8×8×75	288,42	141 03000/8×8×75	384,92	144 03000/8×8×75	384,92	121 03000/8×8×75	384,99
	dim 4	101 04000/7×7×65	137,24	131 04000/8×8×78	301,74	111 04000/9×9×80	302,60	141 04000/9×9×78	403,38	144 04000/9×9×78	403,38	121 04000/9×9×80	403,30
	dim 5	101 05000/8×8×65	147,83	131 05000/9×9×80	324,01	111 05000/10×10×80	323,15	141 05000/10×10×78	436,40	144 05000/10×10×78	436,40	121 05000/10×10×80	436,40
	dim 6	101 06000/9×9×75	165,43	131 06000/11×11×80	356,33	111 06000/12×12×85	413,19	141 06000/12×12×84	552,45	144 06000/12×12×84	552,45	121 06000/12×12×85	552,45
	dim 7	101 07000/11×11×76	228,37			111 07000/14×14×90	500,58					121 07000/14×14×90	675,59
	dim 8	101 08000/11×11×76	228,37	131 08000/12×12×85	527,38	111 08000/14×14×90	541,40	141 08000/16×16×90	716,72	144 08000/16×16×90	716,72	121 08000/14×14×90	752,63
	dim 10	101 10000/12×12×80	303,60	131 10000/14×14×90	792,20	111 10000/16×16×90	676,30	141 10000/1×16×90	901,78	144 10000/16×16×90	901,78	121 10000/16×16×90	901,78
	dim 12	101 12000/14×14×80	358,28			111 12000/18×18×100	802,71					121 12000/18×18×100	1084,82
	dim 15	101 15000/16×16×85	563,67			111 15000/18×18×100	1209,05					121 15000/18×18×100	1611,57
	dim 16	101 16000/16×16×85	563,67			111 16000/18×18×100	1209,05					121 16000/18×18×100	1611,57
	dim 18											121 18000/23×15×100	2269,77
	dim 20											121 20000/23×15×100	2538,00
Litere mici a-z şi &	dim 1	102 01000/6×6×65	248,39			112 01000/7×7×75	549,34					122 01000/7×7×75	487,97
	dim 1.5	102 01500/6×6×65	164,34			112 01500/7×7×75	366,31					122 01500/7×7×75	487,97
	dim 2	102 02000/6×6×65	164,34			112 02000/7×7×75	366,31					122 02000/7×7×75	487,97
	dim 2.5	102 02500/6×6×65	171,05			112 02500/7×7×75	383,90					122 02500/7×7×75	513,04
	dim 3	102 03000/6×6×65	171,05			112 03000/8×8×75	383,90					122 03000/8×8×75	513,04
	dim 4	102 04000/7×7×75	182,57			112 04000/9×9×80	137,24					122 04000/9×9×80	539,22
	dim 5	102 05000/8×8×65	196,67			112 05000/10×10×80	455,56					122 05000/10×10×80	579,56
	dim 6	102 06000/9×9×75	220,03			112 06000/12×12×85	551,36					122 06000/12×12×85	735,65
	dim 7	102 07000/11×11×76	303,76			112 07000/14×14×90	664,23					122 07000/14×14×90	891,50
	dim 8	102 08000/11×11×76	303,76			112 08000/14×14×90	718,36					122 08000/14×14×90	927,73
	dim 10	102 10000/12×12×80	403,85			112 10000/16×16×90	902,10					122 10000/16×16×90	1202,35
	dim 12	102 12000/14×14×80	476,52			112 12000/18×18×100	1071,12					122 12000/18×18×100	1428,23
	dim 15	102 15000/16×16×85	749,75			112 15000/18×18×100	1610,48					122 15000/18×18×100	2144,72
	dim 16	102 16000/16×16×85	749,75			112 16000/18×18×100	1610,48					122 16000/18×18×100	2144,72
Cifre 0-9	dim 1	100 01000/6×6×65	62,23	130 010007×7×75	114,10	110 01000/7×7×75	137,94					120 01000/7×7×75	183,27
	dim 1.5	100 01500/6×6×65	41,28	130 01500/7×7×75	83,80	110 01500/7×7×75	91,44					120 01500/7×7×75	122,52
	dim 2	100 02000/6×6×65	41,28	130 02000/7×7×75	83,80	110 02000/7×7×75	91,44	140 02000/7×7×75	122,52	143 02000/7×7×75	122,52	120 02000/7×7×75	122,52
	dim 2.5	100 02500/6×6×65	43,00	130 02500/7×7×75	92,07	110 02500/7×7×75	96,35					120 02500/7×7×75	128,21
	dim 3	100 03000/6×6×65	43,00	130 03000/7×7×75	92,07	110 03000/8×8×75	96,35	140 03000/8×8×75	128,21	143 03000/8×8×75	128,21	120 03000/8×8×75	128,21
	dim 4	100 04000/7×7×65	45,80	130 04000/8×8×78	100,87	110 04000/9×9×80	100,94	140 04000/9×9×78	148,86	143 04000/9×9×78	151,53	120 04000/9×9×80	134,67
	dim 5	100 05000/8×8×65	51,48	130 05000/9×9×80	107,87	110 05000/10×10×80	109,05	140 05000/10×10×78	145,26	143 05000/10×10×78	145,26	120 05000/10×10×80	145,26
	dim 6	100 06000/9×9×75	55,23	130 06000/11×11×80	119,01	110 06000/12×12×85	137,78	140 06000/12×12×84	184,21	143 06000/12×12×84	184,21	120 06000/12×12×85	184,12
	dim 7	100 07000/11×11/76	76,18			110 07000/14×14×90	166,99					120 07000/14×14×90	223,15
	dim 8	100 08000/11×11×76	76,18	130 08000/12×12×85	176,10	110 08000/14×14×90	180,62	140 08000/16×16×90	236,71	143 08000/16×16×90	236,71	120 08000/14×14×90	248,55
	dim 10	100 10000/12×12×80	101,41	130 10000/14×14×90	264,42	110 10000/16×16×90	225,48	140 10000/16×16×90	300,88	143 10000/16×16×90	300,88	120 10000/18×18×100	300,88
	dim 12	100 12000/14×14×80	119,64			110 12000/18×18×100	267,71					120 12000/18×18×100	361,63
	dim 15	100 15000/16×16×85	211,31			110 15000/18×18×100	403,06					120 15000/18×18×100	569,43
	dim 16	100 16000/16×16×85	211,31			110 16000/18×18×100	403,06					120 16000/18×18×100	569,43
	dim 18											120 18000/23×15×100	756,53
	dim 20											120 20000/23×15×100	845,94
Marcaje pe poanson	Caracter literă/ cifră	×		×		×		×		×		×	
	Înălțime caracter	×		×		×		×		×		×	
	Cap de batere tratat			×				×		×		×	
	Made in Germany	×				×							
	Simbol protecție ochi	×		×		×		×		×		×	

!!! POANSOANELE POT FI ACHIZIȚIONATE ŞI INDIVIDUAL AVÂND URMĂTORUL PREȚ: • LITERĂ: PREȚ SET : 22.26 = PREȚ / BUC; • NUMĂR: PREȚ SET : 7.42= PREȚ / BUC





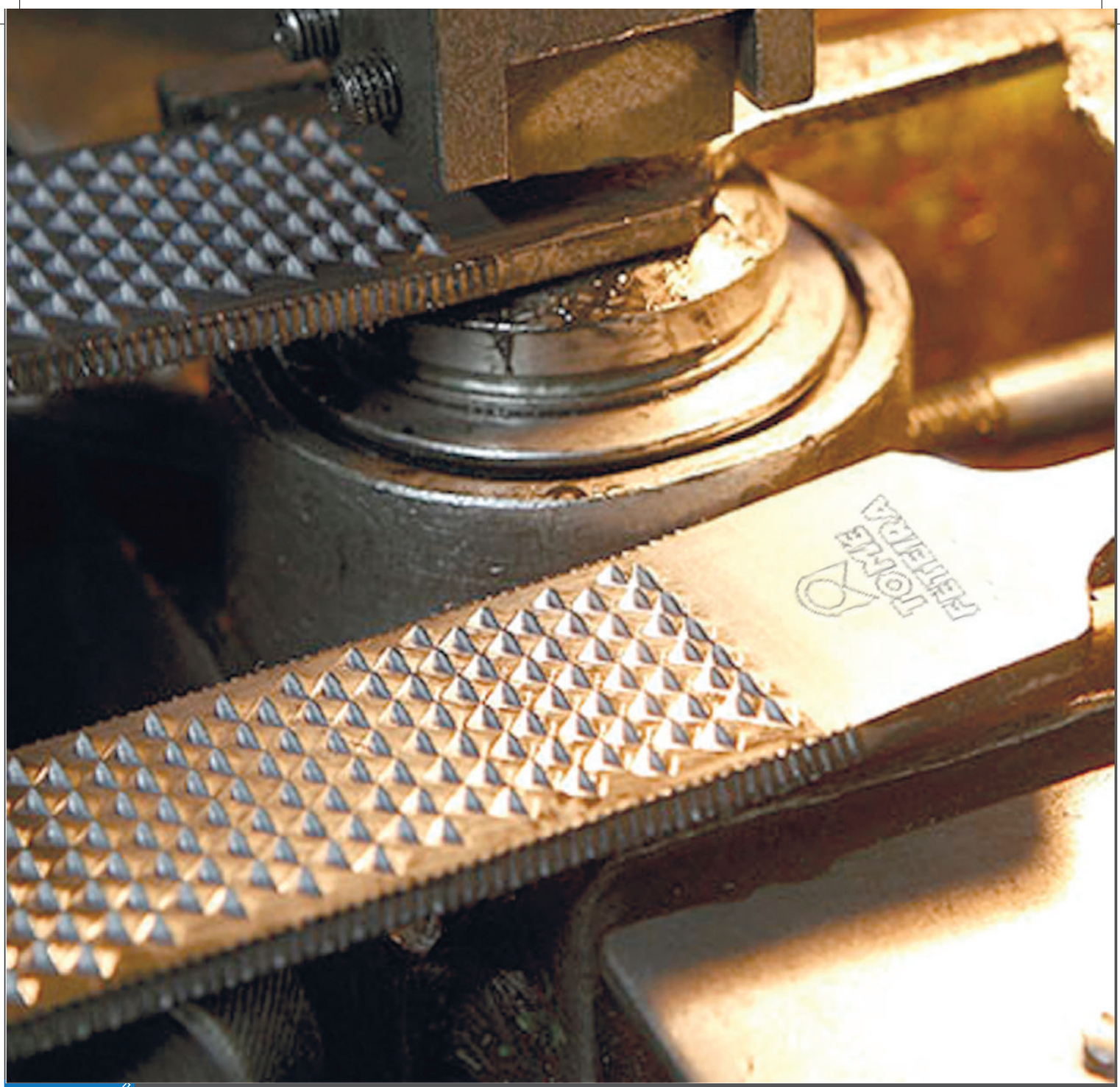












PILE SI RASPILE

DANTURI

Pilele se executa cu doua feluri de dantura:
- pile avand dantura cu taietura simpla
- pile avand dantura cu taietura dubla

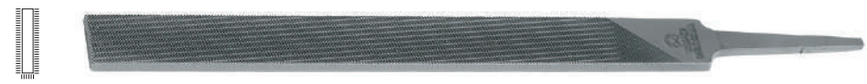
FINETEA DANTURII

Este definita prin numarul de dinti pe centimetrul masurat in directia axei pilei
Se deosebesc urmatoarele tipuri de danturi: dantura aspra, dantura bastarda, dantura semifina, dantura fina.

UNIOR TOMÉ FETEIRA

PILE PENTRU PRELUCRAREA METALELOR

DIN 7261 Forma A



DIN 7276 Forma B



DIN 7261 Forma E



DIN 7261 Forma F



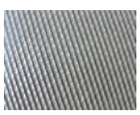
DIN 7261 Forma C



DIN 7261 Forma D



TIPURI DE DANTURI



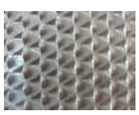
pila bastard



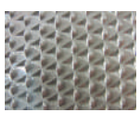
pila semifina



pila fina



raspila bastard



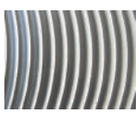
raspila semifina



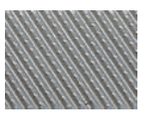
raspila fina



ascutire simpla



ascutire radiala



ascutire cu spargator de aschii

Pile pentru prelucrarea metalelor	228
Pile pentru ascutit panze circulare	233
Panze pentru ascutit lant drujba	233
Pile diamantate	234
Pile pentru mecanica fina	235
Masaturi	236
Manere pila	237
Raspile	238
Razuitoare	238
Pile rectificat filete	238



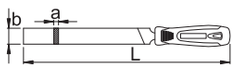


760HB

Pila dreptunghiulara cu maner, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





UNIOR

DIN 7261 | Forma A



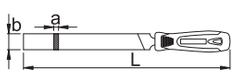
	Lungime utila	Lungime totala	a x b	g	
619291	100	220	2.5 x 12	95	**25.39**
619292	150	270	4 x 16	104	**26.46**
612992	200	325	5 x 20	245	**30.60**
612993	250	375	6.5 x 25	355	**37.21**
612994	300	425	6.5 x 30	500	**49.76**

760H1/2S

Pila dreptunghiulara cu maner, semifina

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





UNIOR

DIN 7261 | Forma A



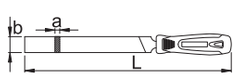
	Lungime utila	Lungime totala	a x b	g	
619295	100	220	2.5 x 12	95	**25.34**
619296	150	270	4 x 16	104	**27.10**
612995	200	325	5 x 20	245	**33.66**
612996	250	375	6.5 x 25	355	**40.76**
612997	300	425	6.5 x 30	545	**51.37**

760HS

Pila dreptunghiulara cu maner, semifina

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





UNIOR

DIN 7261 | Forma A



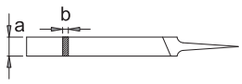
	Lungime utila	Lungime totala	a x b	g	
619299	100	220	2.5 x 12	95	**26.46**
619300	150	270	4 x 16	104	**27.58**
612998	200	325	5 x 20	245	**33.66**
612999	250	375	6.5 x 25	355	**40.76**
613001	300	425	6.5 x 30	545	**51.37**

P/001

Pila dreptunghiulara

- *pila rectangulara cu dantura incrucisata pe ambele parti*
- *cu un cant activ*
- *1 - bastard; 2 - semifina; 3 - fina*
- *duritate: 60-66 HRc*





TOMÉ FEITEIRA

DIN 7261 | Forma A



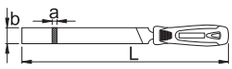
	Lungime	Taiere	a	b	kg	
P001350BA	350	1	33,5	7,5	1,28	**67.56**
P001350SF	350	2	33,5	7,5	1,28	**71.01**
P001350FI	350	3	33,5	7,5	1,28	**76.62**
P001400BA	400	1	37,5	8,5	1,85	**108.05**
P001400SF	400	2	37,5	8,5	1,85	**111.94**
P001400FI	400	3	37,5	8,5	1,85	**115.64**

761HB

Pila semirotunda cu maner, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





UNIOR

DIN 7261 | Forma E



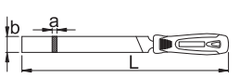
	Lungime utila	Lungime totala	a x b	g	
619303	100	220	3 x 11.5	106	**27.10**
619304	150	270	4.5 x 16	140	**31.86**
613002	200	325	5.5 x 20	203	**36.58**
613003	250	375	7 x 25	324	**42.76**
613004	300	425	8.5 x 30	490	**57.84**

761H1/2S

Pila semirotunda cu maner, semifina

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





UNIOR

DIN 7261 | Forma E



	Lungime utila	Lungime totala	a x b	g	
619307	100	220	3 x 11.5	106	**25.39**
619308	150	270	4.5 x 16	140	**30.40**
613005	200	325	5.5 x 20	203	**40.86**
613006	250	375	7 x 25	324	**47.87**
613007	300	425	8.5 x 30	490	**68.44**

761HS

Pila semirotunda cu maner, fina

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



UNIOR

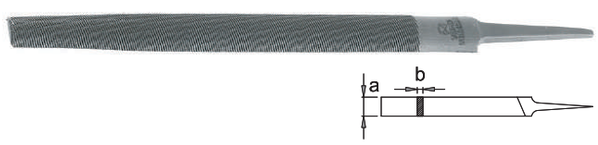
DIN 7261 | Forma E

	Lungime utila	Lungime totala	a x b	g	
619311	100	220	3 x 11.5	106	**27.97**
619312	150	270	4.5 x 16	140	**33.52**
613008	200	325	5.5 x 20	203	**40.86**
613009	250	375	7 x 25	324	**47.87**
613010	300	425	8.5 x 30	490	**68.44**

MC/050

Pila semirotunda

- *pila semirotunda cu dantura incrucisata pe ambele parti*
- *conica*
- *1 - bastard; 2 - semifina; 3 - fina*



TOMÉ FEITEIRA

DIN 7261 | Forma E

	Lungime	Taiere	a	b	kg	
MC050350BA	350	1	34	9,5	1,28	**87.22**
MC050350SF	350	2	34	9,5	1,28	**98.13**
MC050350FI	350	3	34	9,5	1,28	**102.81**
MC050400BA	400	1	39	11	1,73	**164.95**
MC050400SF	400	2	39	11	1,73	**171.73**
MC050400FI	400	3	39	11	1,73	**190.65**

763HB

Pila rotunda cu maner, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



UNIOR

DIN 7261 | Forma F

	Lungime utila	Lungime totala	D	g	
619315	100	220	4	80	**23.98**
619316	150	270	6	105	**24.52**
613011	200	325	7.5	157	**27.87**
613012	250	375	8.5	209	**35.71**
613013	300	425	12	317	**48.55**

763H1/2S

Pila rotunda cu maner, semifina

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



UNIOR

DIN 7261 | Forma F

	Lungime utila	Lungime totala	D	g	
619319	100	220	4	80	**24.52**
619320	150	270	6	105	**25.15**
613014	200	325	7.5	157	**31.52**
613015	250	375	8.5	209	**39.31**
613016	300	425	12	317	**53.31**

763HS

Pila rotunda cu maner, fina

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



UNIOR

DIN 7261 | Forma F

	Lungime utila	Lungime totala	D	g	
619323	100	220	4	80	**25.15**
619324	150	270	6	105	**25.68**
613017	200	325	7.5	157	**31.52**
613018	250	375	8.5	209	**39.31**
613019	300	425	12	317	**53.31**

R/060

Pila rotunda

- *pila rotunda cu dantura incrucisata in spirala*
- *1 - bastard; 2 - semifina; 3 - fina*
- *duritate: 60-66 HRc*



TOMÉ FEITEIRA

DIN 7261 | Forma F

	Lungime	Taiere	a	b	kg	
R060350BA	350	1	Ø14.5	-	0,80	**66.20**
R060350SF	350	2	Ø14.5	-	0,80	**71.50**
R060350FI	350	3	Ø14.5	-	0,80	**77.42**
R060400BA	400	1	Ø17.5	-	1,43	**132.89**
R060400SF	400	2	Ø17.5	-	1,43	**132.89**

764HB

Pila triunghiulara cu maner, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



UNIOR

DIN 7261 | Forma C

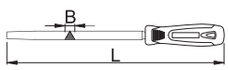
	Lungime utila	Lungime totala	B	g	
619327	100	220	7.5	94	**26.27**
619328	150	270	10.5	133	**26.85**
613020	200	325	14.5	200	**26.51**
613021	250	375	17	332	**34.29**
613022	300	425	19.5	480	**49.57**

764H1/2S

Pila triunghiulara cu maner, semifina

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





UNIOR

DIN 7261 | Forma C

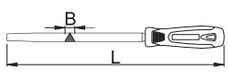
	Lungime utila	Lungime totala	B	g	
619331	100	220	7.5	94	**26.85**
619332	150	270	10.5	133	**27.97**
613023	200	325	14.5	200	**29.14**
613024	250	375	17	332	**37.65**
613025	300	425	19.5	480	**54.58**

764HS

Pila triunghiulara cu maner, fina

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





UNIOR

DIN 7261 | Forma C

	Lungime utila	Lungime totala	B	g	
619335	100	220	7.5	94	**27.44**
619336	150	270	10.5	133	**28.17**
613026	200	325	14.5	200	**29.14**
613027	250	375	17	332	**37.65**
613028	300	425	19.5	480	**54.58**

TQS/040

Pila triunghiulara

- *pila triunghiulara cu dantura incrucisata*
- *1 - bastard; 2 - semifina; 3 - fina*
- *duritate: 60-66 HRc*





TOME FETEIRA

DIN 7261 | Forma C

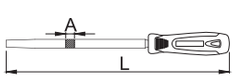
	Lungime	Taiere	a	b	kg	
TQS040350BA	350	1	23	23	1,20	**82.04**
TQS040350SF	350	2	23	23	1,20	**93.01**
TQS040350FI	350	3	23	23	1,20	**99.98**

765HB

Pila patrata cu maner, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





UNIOR

DIN 7261 | Forma D

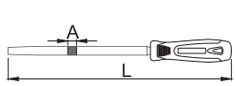
	Lungime utila	Lungime totala	A	g	
619339	100	220	4	100	**23.40**
619340	150	270	5.5	106	**25.93**
613029	200	325	8	158	**26.90**
613030	250	375	10	252	**36.34**
613031	300	425	12	400	**47.19**

765H1/2S

Pila patrata cu maner, semifina

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





UNIOR

DIN 7261 | Forma D

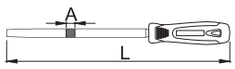
	Lungime utila	Lungime totala	A	g	
619343	100	220	4	100	**23.98**
619344	150	270	5.5	106	**25.15**
613032	200	325	8	158	**29.24**
613033	250	375	10	252	**36.58**
613034	300	425	12	400	**49.42**

765HS

Pila patrata cu maner, fina

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





UNIOR

DIN 7261 | Forma D

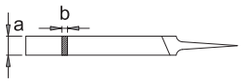
	Lungime utila	Lungime totala	A	g	
619347	100	220	4	100	**23.98**
619348	150	270	5.5	106	**25.15**
613035	200	325	8	158	**29.24**
613036	250	375	10	252	**36.58**
613037	300	425	12	400	**49.42**

Q/045

Pila patrata

- *pila patrata cu dantura incrucisata pe toate partile*
- *conica*
- *1 - bastard; 2 - semifina; 3 - fina*
- *duritate: 60-66 HRc*





TOMÉ FETEIRA

DIN 7261 | Forma D

	Lungime	Taiere	a	b	kg	
Q045350BA	350	1	14,5	14,5	0,96	**74.46**
Q045350SF	350	2	14,5	14,5	0,96	**77.30**
Q045350FI	350	3	14,5	14,5	0,96	**81.80**

762/5B

Set de pile bastard 250 mm

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



UNIOR

	Componenta	g	
612930	5 piese	1430	**186.31**

760HB (250), **761HB** (250), **763HB** (250), **764HB** (250), **765HB** (250)

762/5B

Set de pile bastard 150 mm

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



UNIOR

	Componenta	g	
619467	5 piese	500	**146.32**

760HB (150), **761HB** (150), **763HB** (150), **764HB** (150), **765HB** (150)

762/5B

Set de pile bastard 200 mm

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



UNIOR

	Componenta	g	
612929	5 piese	1020	**148.51**

760HB (200), **761HB** (200), **763HB** (200), **764HB** (200), **765HB** (200)

762/5 1/2S

Set de pile semifine 150 mm

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



	Componenta	g	
619468	5 piese	500	**146.42**

760H1/2S (150), **761H1/2S** (150), **763H1/2S** (150), **764H1/2S** (150), **765H1/2S** (150)

762/5 1/2S

Set de pile semifine 200 mm

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



	Componenta	g	
612931	5 piese	1020	**164.47**

760H1/2S (200), **761H1/2S** (200), **763H1/2S** (200), **764H1/2S** (200), **765H1/2S** (200)

762/5S

Set de pile fine 150 mm

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



	Componenta	g	
619469	5 piese	500	**149.92**

760HS (150), **761HS** (150), **763HS** (150), **764HS** (150), **765HS** (150)

762/5S

Set de pile fine 250 mm

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



	Componenta	g	
612934	5 piese	1560	**202.22**

760HS (250), **761HS** (250), **763HS** (250), **764HS** (250), **765HS** (250)

762/5S

Set de pile fine 200 mm

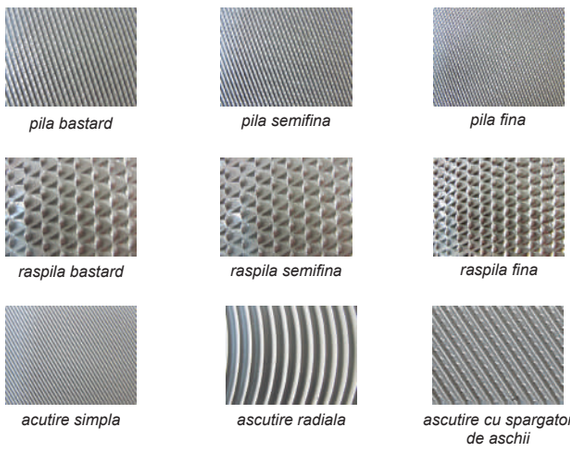
- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



	Componenta	g	
612933	5 piese	1020	**164.47**

760HS (200), **761HS** (200), **763HS** (200), **764HS** (200), **765HS** (200)

Tipuri de danturi



pila bastard | *pila semifina* | *pila fina*

raspila bastard | *raspila semifina* | *raspila fina*

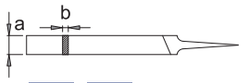
acutire simpla | *ascutire radiala* | *ascutire cu spargator de aschii*

F/070

Pila cutit

- *pila tip cutit cu profil triunghiular cu ascutire incrucisata pe ambele parti*
- *margine ingusta cu tais simplu*
- *1 - bastard; 2 - semifina; 3 - fina*
- *duritate: 60-66 HRc*





DIN 7261 | Forma G



TOME FETEIRA

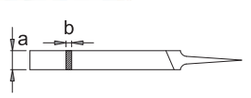
	Lungime	Taiere	a	b	kg	
F070100BA	100	1	11,8	2,5	0,02	47.28
F070100SF	100	2	11,8	2,5	0,02	51.28
F070100FI	100	3	11,8	2,5	0,02	53.56
F070150BA	150	1	17,0	4,5	0,06	49.56
F070150SF	150	2	17,0	4,5	0,06	53.56
F070150FI	150	3	17,0	4,5	0,06	56.40
F070200BA	200	1	21,0	5,0	0,10	72.43
F070200SF	200	2	21,0	5,0	0,10	78.10
F070200FI	200	3	21,0	5,0	0,10	81.61
F070250BA	250	1	26,0	6,5	0,20	82.72
F070250SF	250	2	26,0	6,5	0,20	89.07
F070250FI	250	3	26,0	6,5	0,20	93.51
F070300BA	300	1	30,0	7,0	0,34	107.13

UP/297

Pila dreptunghiulara universala

- *pila rectangulara universala cu dantura simpla pe ambele parti si spargator de aschie*
- *cu un cant activ*
- *1 - bastard; 2 - semifina; 3 - fina*
- *duritate: 60-66 HRc*







TOME FETEIRA

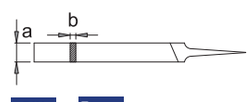
	Lungime	Taiere	a	b	kg	
UP297200SF	200	2	20	4,5	0,15	41.73
UP297250SF	250	2	24	6,0	0,27	57.02

P2CX/100

Pila plata cu muchii drepte pentru ascutit panze circulare

- *pila rectangulara cu tais simplu pe toate cele 4 fete*
- *pentru panze fierastrau circular si panglica*
- *1 - bastard; 2 - semifina; 3 - fina*





DIN 7276 | Forma E



TOME FETEIRA

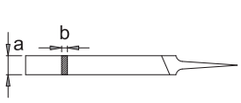
	Lungime	Taiere	a	b	kg	
P2CX100150BA	150	1	15	2,5	0,06	21.82
P2CX100150SF	150	2	15	2,5	0,06	22.74
P2CX100150FI	150	3	15	2,5	0,06	23.73
P2CX100200BA	200	1	20	3,5	0,12	24.66
P2CX100200SF	200	2	20	3,5	0,12	25.77
P2CX100200FI	200	3	20	3,5	0,12	27.00
P2CX100250BA	250	1	24	4,0	0,19	36.24
P2CX100250SF	250	2	24	4,0	0,19	37.35
P2CX100250FI	250	3	24	4,0	0,19	39.02
P2CX100300BA	300	1	29	5,0	0,34	45.55
P2CX100300SF	300	2	29	5,0	0,34	47.03
P2CX100300FI	300	3	29	5,0	0,34	48.94

P1CR/101

Pila plata cu o muchie dreapta si una rotunjita pentru ascutit panze circulare

- *pila rectangulara cu tais simplu pe toate cele 4 fete*
- *pentru panze fierastrau circular si panglica*
- *1 - bastard; 2 - semifina; 3 - fina*





DIN 7276 | Forma E



TOME FETEIRA

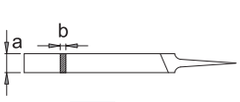
	Lungime	Taiere	a	b	kg	
P1CR101150BA	150	1	15	2,5	0,06	25.03
P1CR101150SF	150	2	15	2,5	0,06	25.77
P1CR101150FI	150	3	15	2,5	0,06	26.69
P1CR101200BA	200	1	20	3,5	0,12	26.87
P1CR101200SF	200	2	20	3,5	0,12	27.55
P1CR101200FI	200	3	20	3,5	0,12	28.79
P1CR101250BA	250	1	24	4,0	0,19	38.71
P1CR101250SF	250	2	24	4,0	0,19	39.51
P1CR101300BA	300	1	24	4,0	0,34	47.46
P1CR101300SF	300	2	29	5,0	0,34	48.57
P1CR101300FI	300	3	29	5,0	0,34	51.59

P2CR/102

Pila plata cu muchii rotunjite pentru ascutit panze circular

- *pila rectangulara cu tais simplu pe toate cele 4 fete*
- *pentru panze fierastrau circular si panglica*
- *1 - bastard; 2 - semifina; 3 - fina*





DIN 7276 | Forma E



TOME FETEIRA

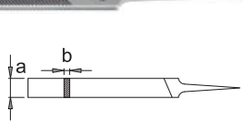
	Lungime	Taiere	a	b	kg	
P2CR102150BA	150	1	15	2,5	0,06	26.07
P2CR102150SF	150	2	15	2,5	0,06	27.18
P2CR102150FI	150	3	15	2,5	0,06	28.42
P2CR102200BA	200	1	20	3,5	0,12	28.11
P2CR102200SF	200	2	20	3,5	0,12	29.03
P2CR102200FI	200	3	20	3,5	0,12	30.39
P2CR102250BA	250	1	24	4,0	0,19	40.87
P2CR10250SF	250	2	24	4,0	0,19	42.41
P2CR102250FI	250	3	24	4,0	0,19	43.89
P2CR102300BA	300	1	29	5,0	0,34	49.62
P2CR102300SF	300	2	29	5,0	0,34	50.79
P2CR102300FI	300	3	29	5,0	0,34	52.39

PPMS/193

Pila plata pentru lant de motofierastrau

- *cu tais incrucisat*
- *1 - bastard; 2 - semifina; 3 - fina*







TOME FETEIRA

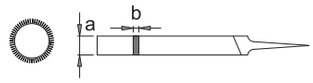
	Lungime	Taiere	a	b	kg	
PPMS193150	150	2	15,0	3,0	0,07	22.25

170-179

Pila rotunda pentru lant de motofierastrau

- *cu tais incrucisat*
- *1 - bastard; 2 - semifina; 3 - fina*





TOMÉ FEITEIRA

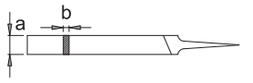
	Lungime	Taiere	a	b	kg	
RMS618150	150	3	Ø 3,2	-	0,01	**8.81**
RMS6532150	150	3	Ø4,0	-	0,02	**8.81**
RMS818200	200	3	Ø3,2	-	0,02	**9.00**
1713200	200	3	Ø3,5	-	0,02	**9.00**
RMS8532200	200	3	Ø4,0	-	0,02	**9.00**
1733200	200	3	Ø4,5	-	0,03	**9.00**
RMS8316200	200	3	Ø4,8	-	0,03	**9.00**
RMS8732200	200	3	Ø5,5		0,04	**10.36**
RMS814200	200	3	Ø6,3		0,05	**10.36**

XMTM/019

Pila plata pentru aluminiu

- *pentru aluminiu si alte metale usoare*





DIN 7261 | Forma A

TOMÉ FEITEIRA



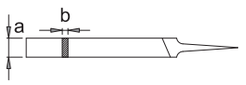
	Lungime	Taiere	a	b	kg	
XMTM019200	200	0	20	4,5	0,14	**49.56**
XMTM019250	250	0	24	6,0	0,25	**58.87**
XMTM019300	300	0	29	6,5	0,40	**89.69**

MCMTM/016

Pila semirotunda pentru aluminiu

- *pentru aluminiu si alte metale usoare*





DIN 7261 | Forma E

TOMÉ FEITEIRA



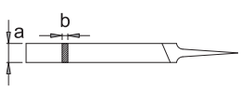
	Lungime	Taiere	a	b	kg	
MCMTM016200	200	0	20	5,5	0,13	**57.94**
MCMTM016250	250	0	24	7,0	0,24	**67.50**
MCMTM016300	300	0	29	8,2	0,44	**104.05**
MCMTM016350	350	0	34	9,5	1,28	**119.83**

113

Pila plata pentru intretinere schiuri

- *cu tais incrucisat*
- *1 - bastard; 2 - semifina; 3 - fina*





TOMÉ FEITEIRA



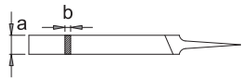
	Lungime	Taiere	a	b	kg	
1131200	200	1	20,0	3,0	0,07	**26.26**

DNF

Pila plata diamantata

- *pentru prelucrarea otelurilor calite, carburii, sticlei, ceramicii si a plasticului armat cu fibre*





TOMÉ FEITEIRA



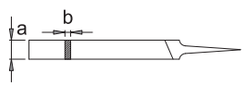
	Lungime	Taiere	a	b	kg	
DNF100	100	2	4	1	0,08	**154.56**

DNH

Pila semirotunda diamantata

- *pentru prelucrarea otelurilor calite, carburii, sticlei, ceramicii si a plasticului armat cu fibre*





TOMÉ FEITEIRA



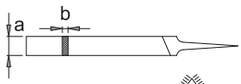
	Lungime	Taiere	a	b	kg	
DNH100	100	2	3,5	1,5	0,08	**154.56**

DND

Pila triunghiulara diamantata

- *pentru prelucrarea otelurilor calite, carburii, sticlei, ceramicii si a plasticului armat cu fibre*





TOMÉ FEITEIRA



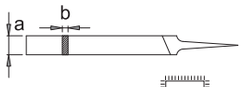
	Lungime	Taiere	a	b	kg	
DND100	100	2	2,5	2,5	0,08	**154.56**

DNV

Pila patrata diamantata

- *pentru prelucrarea otelurilor calite, carburii, sticlei, ceramicii si a plasticului armat cu fibre*





TOMÉ FEITEIRA



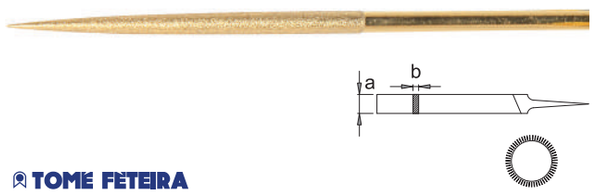
	Lungime	Taiere	a	b	kg	
DNV100	100	2	2,0	2,0	0,08	**154.56**



DNR

Pila rotunda diamantata

• *pentru prelucrarea otelurilor calite, carburii, sticlei, ceramicii si a plasticului armat cu fibre*



TOMÉ FEITEIRA

	Lungime	Taiere	a	b	kg	
DNR100	100	2	1,5-1		0,08	**154.56**

GDS

Set 5 pile diamantate linia hobby

• *pentru prelucrarea otelurilor calite, carburii, sticlei, ceramicii si a plasticului armat cu fibre*
• *maner PVC*



TOMÉ FEITEIRA

GDS	**213.73**

CP/401

Pila ac plata muchiile danturate

• *pentru lucrari de precizie, ceasornicarie etc.*



TOMÉ FEITEIRA

	Lungime	Taiere	a	b	kg	
CP401160	160	0			0,12	**18.37**
CP401180	180	0			0,15	**20.28**

CPCR/402

Pila ac plata muchiile rotunjite nedanturate

• *pentru lucrari de precizie, ceasornicarie etc.*



TOMÉ FEITEIRA

	Lungime	Taiere	a	b	kg	
CPCR402160	160	0			0,012	**18.37**
CPCR402180	180	0			0,015	**20.28**

CX/403

Pila ac plata ascutita muchiile danturate

• *pentru lucrari de precizie, ceasornicarie etc.*



TOMÉ FEITEIRA

	Lungime	Taiere	a	b	kg	
CX403160	160	0			0,012	**18.37**
CX403180	180	0			0,015	**20.28**

CXCR/404

Pila ac plata muchiile danturate rotunjite

• *pentru lucrari de precizie, ceasornicarie etc.*



TOMÉ FEITEIRA

	Lungime	Taiere	a	b	kg	
CXCR404160	160	0			0,012	**18.37**
CXCR404180	180	0			0,015	**20.28**

CXCR/405

Pila ac semirotunda

• *pentru lucrari de precizie, ceasornicarie etc.*



TOMÉ FEITEIRA

	Lungime	Taiere	a	b	kg	
CXCR405160	160	0			0,012	**18.37**
CXCR405180	180	0			0,015	**20.28**

CT/406

Pila ac triunghiulara

• *pentru lucrari de precizie, ceasornicarie etc.*



TOMÉ FEITEIRA

	Lungime	Taiere	a	b	kg	
CT406160	160	0			0,12	**18.37**
CT406180	180	0			0,15	**20.28**

CQ/407

Pila ac patrata

• *pentru lucrari de precizie, ceasornicarie etc.*



TOMÉ FEITEIRA

	Lungime	Taiere	a	b	kg	
CQ407160	160	0			0,012	**18.37**
CQ407180	180	0			0,015	**20.28**

CR/408

Pila ac rotunda

• *pentru lucrari de precizie, ceasornicarie etc.*





TOME FEITEIRA

	Lungime	Taiere	a	b	kg	
CR408160	160	0			0,012	**18,37**
CR408180	180	0			0,015	**20,28**

CF/409

Pila ac cutit

• *pentru lucrari de precizie, ceasornicarie etc.*





TOME FEITEIRA

	Lungime	Taiere	a	b	kg	
CF409160	160	0			0,012	**18.37**
CF409180	180	0			0,015	**20.28**

CLP/410

Pila ac eliptica

• *pentru lucrari de precizie, ceasornicarie etc.*





TOME FEITEIRA

	Lungime	Taiere	a	b	kg	
CLP410160	160	0			0,012	**18.37**
CLP410180	180	0			0,015	**20.28**

CB/412

Pila ac triunghiulara danturata pe o singura latura

• *pentru lucrari de precizie, ceasornicarie etc.*





TOME FEITEIRA

	Lungime	Taiere	a	b	kg	
CB412160	160	0			0,012	**18.37**
CB412180	180	0			0,015	**20.28**

CFET/414

Pila ac rombica

• *pentru lucrari de precizie, ceasornicarie etc.*





TOME FEITEIRA

	Lungime	Taiere	a	b	kg	
CFET414160	160	0			0,012	**18.37**
CFET414180	180	0			0,015	**20.28**

CJ6/415 / CJ12/400

Set de pile ac

• *pentru aluminiu si alte metale usoare*





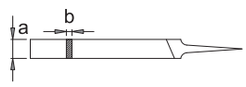
TOME FEITEIRA

	Lungime	Numar componente	
CJ6415160	160	6	**128.83**
CJ6415180	180	6	**140.97**
CJ12400160	160	12	**241.93**
CJ12400180	180	12	**262.09**

6631300

Masat cu profil rotund

• *lungime utila 250 mm*
• *sectiune Ø 10 mm*
• *greutate: 300 g*





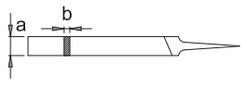
TOME FEITEIRA

	Lungime	Taiere	a	b	kg	
6631300	250	-	10,0	10,0	0,30	**73.62**

6651300

Masat cu profil oval

• *lungime utila 275 mm*
• *sectiune 22x1.0 mm*
• *greutate: 400 g*





TOME FEITEIRA

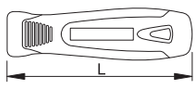
	Lungime	Taiere	a	b	kg	
6651300	275	-	22,0	1,0	0,40	**107.60**

766H

Maner pentru pile

• livrat fara piesa interna





UNIOR

	Lungime	g	
623365	115	0,08	7.64

766H1.2

Piesa interna a 766H pentru 760,761 - 150 mm



UNIOR

	g	
623366	8	16.34

766H1.3

Piesa interna a 766H pentru 760,761 - 200 mm



UNIOR

	g	
623367	8	16.34

766H1.4

Piesa interna a 766H pentru 760,761 - 250 mm



UNIOR

	g	
623368	8	16.34

766H1.5

Piesa interna a 766H pentru 760,761 - 300 mm



UNIOR

	g	
623369	8	16.34

766H2.1

Piesa interna a 766H pentru 763, 764, 765 - 100 mm



UNIOR

	g	
623370	8	16.34

766H2.2

Piesa interna a 766H pentru 760, 761 - 100 mm, 764, 765 - 100 mm



UNIOR

	g	
623371	8	16.34

766H2.4

Piesa interna a 766H pentru 764 - 200 mm si 763, 765 - 200 mm



UNIOR

	g	
623373	8	16.34

766H2.5

Piesa interna a 766H pentru 764 - 250 mm si 763, 764, 765 - 300 mm



UNIOR

	g	
623374	8	16.34

096

Maner de lemn pentru pila



TOMÉ FETEIRA

	Lungime	
0967060	60	9.32
0967080	80	9.32
0967090	90	9.32
0967100	100	11.19
0967110	110	11.19
0967120	120	11.19
0967130	130	12.88
0967140	140	12.88
0967150	150	12.88
0967160	160	12.88

097

Maner de plastic pentru pila

0970981 - *pentru pile 100 mm (4"): late, rotunde, triunghiulare si patrate; 86 mm Ø4,0 (gaura mica)*

0970983 - *pentru pile 100 mm (4"): semirotunde / 150 mm (6"): late; semirotunde; rotunde; patrate; triunghiulare si raspile semirotunde; 86 mm Ø5,4 (gaura mare)*

0970984 - *pentru pile 200 mm (8"): late; semirotunde; rotunde; patrate si triunghiulare; 110 mm Ø6,5 (gaura mica)*

0970985 - *pentru pile 200 mm (8"): raspile semirotunde / 250 mm (10") rotunde; patrate si triunghiulare; 110 mm Ø7,7 (gaura mare)*

0970988 - *pentru pile 250 mm (10"): pile late, semirotunde si raspile semirotunde / 300 mm (12") pile rotunde, patrate si triunghiulare; 135 mm Ø9,3 (gaura mica)*

0970989 - *pile de 300 mm (12"): pile late, semirotunde si raspile semirotunde / 350 mm (14") toate pilele; 135 mm Ø10.6 (gaura mare)*



TOMÉ FETEIRA

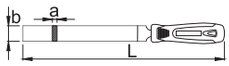
	Diametru	Lumgime	
0970981	4.0 Ø	86	11.19
0970983	5.4 Ø	86	11.19
0970984	6.5 Ø	110	11.19
0970985	7.7 Ø	110	11.19
0970988	9.3 Ø	135	11.19
0970989	10.6 Ø	135	11.19

767H1/2S

Raspila dreptunghiulara cu maner, semifina

- *material: otel inalt aliat*





UNIOR

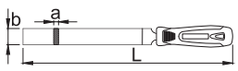
	Lungime utila	Lungime totala	a x b	g	
619773	150	270	3,5 x 15	110	**29.04**
613038	200	325	4,5 x 19,5	260	**33.52**
613039	250	375	5 x 23	370	**45.14**
613040	300	425	6 x 27	480	**57.40**

768H1/2S

Raspila semirotunda cu maner, semifina

- *material: otel inalt aliat*





UNIOR

	Lungime utila	Lungime totala	a x b	g	
619775	150	270	4,5 x 15	100	**35.95**
613041	200	325	5 x 19	180	**42.47**
613042	250	375	6,5 x 23	280	**47.28**
613043	300	425	7,5 x 27	510	**58.37**

659

Pila rectificat filete



TOMÉ FEITEIRA

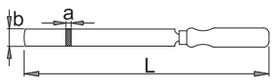
	Tip	Lungime totala	A	g	
6597250	UNF-UNC-SAE	250	10	116	**218.14**

777/6A

Razuitor plat

- *material:otel aliat*
- *lama grunduita, corp vopsit albastru*
- *maner de lemn*





UNIOR

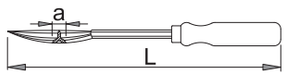
	Lungime utila	Lungime totala	a x b	g	
612228	200	325	5 x 20	233	**67.08**

777/6C

Razuitor cu trei muchii

- *material:otel aliat*
- *lama grunduita, corp vopsit albastru*
- *maner de lemn*





UNIOR

	Lungime utila	Lungime totala	A	g	
612233	150	255	8	113	**60.51**
612234	200	325	8	213	**68.39**
612235	250	370	8	370	**73.50**

658

Pila rectificat filete

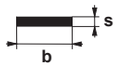
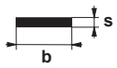
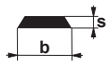
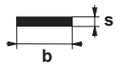


TOMÉ FEITEIRA

	Tip	Lungime totala	A	g	
6587250	GAS (GBS)	250	10	116	**218.14**

Pile de atelier DIN 7261

Valorile *b* si *s* pentru sectiunile transversale din aceasta norma se aplica pentru pilele finite pe partea nesubtiata si sunt masurate peste danturi. Valorile *l* sunt lungimile pilei, fara coada pilei.

Denumire \ Lungime *l*		**100** ± 4	**150** ± 4	**200** ± 6	**250** ± 6	**300** ± 6	**350** ± 8
Forma A  *Pila lata de atelier*	**b x s**	12 x 2,5	16 x 4	20 x 5	25 x 6	30 x 6,5	35 x 7,5
	Dantura	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3
Forma B  *Pila lata de atelier cu varf ascutit*	**b x s**	12 x 2,5	16 x 4	20 x 5	25 x 6	30 x 6,5	35 x 7,5
	Dantura	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3
Forma C  *Pila triunghiulara de atelier*	**b**	8	11	15	17,5	20	24
	Dantura	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3
Forma D  *Pila patrata de atelier*	**b**	4	6	8	10	12	15
	Dantura	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3
Forma E  *Pila semirotunda de atelier*	**b x s**	10,5 x 3	16 x 4,5	20 x 6	25 x 7	30 x 8,5	35 x 10
	Dantura	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3
Forma F  *Pila rotunda de atelier*	**s**	4	6	7,5	9,5	12	15
	Dantura	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3
Forma G  *Pila cutit de atelier*	**b x s**	10 x 3,4	16 x 5,2	20 x 6,4	25 x 7,9	-	-
	Dantura	2	1, 2, 3	1, 2, 3	1, 2, 3	-	-
Forma H  *Pila lata cu varf tesit de atelier*	**b x s**	-	-	-	25 x 6	30 x 6,5	35 x 7,5
	Dantura	-	-	-	3	3	3

Abaterea limita de la valoarea nominala pentru b: ± 1 mm
Abaterea limita de la valoarea nominala pentru s:
± 0,5 mm pentru pilele cu lungimi ≤ 250 mm
± 1,0 mm pentru pilele cu lungimi > 250 mm

Unghiul danturii 65º ± 5º (pe latura ingusta 90º ± 10º)



MENGHINE SI CLEME

Usor de manevrat

Gama larga de scule este destinata unei game largi de utilizatori. Menghinele rapide asigura a prindere sigura si rapida.

Strangere ferma

Sculele Unior se disting printr-o strangere optima, evitandu-se orice pericol in timpul utilizarii. Ghidajele precise ale menghinelor asigura o miscare rapida a bacurilor si asigura o strangere usoara gratie sistemului rapid de blocare. Montate pe un suport rotitor usureaza prinderea obiectelor de forme diferite.



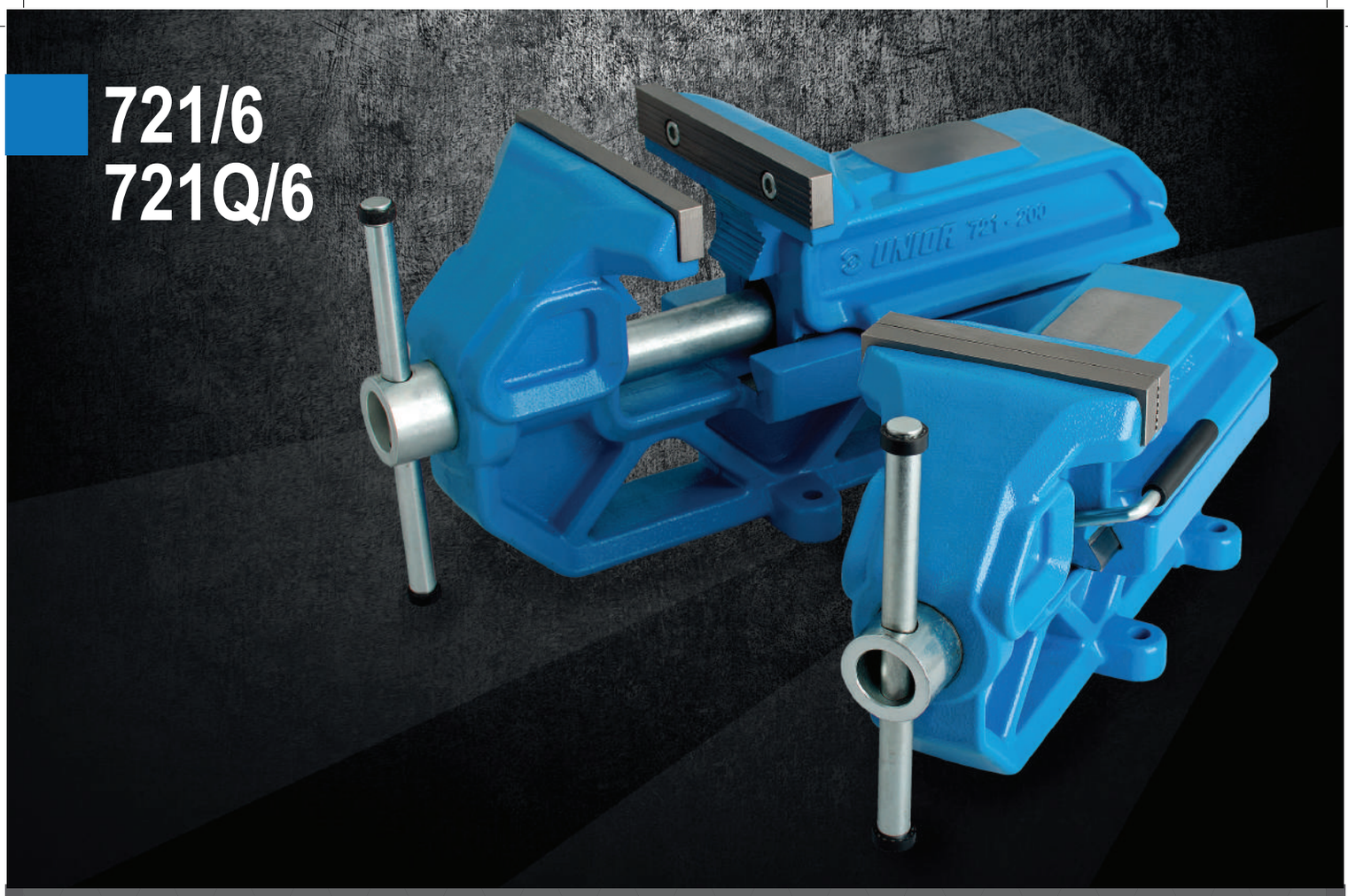
Menghine de banc	243
Accesorii menghine de banc	243
Cleme de fixare	244

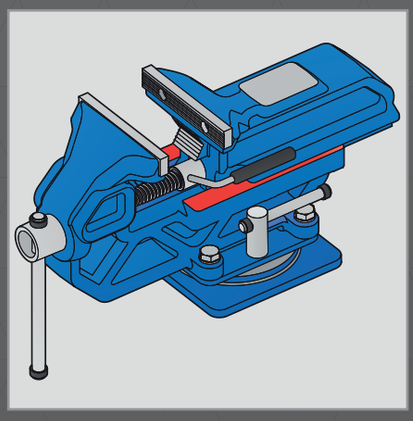


Materiale de calitate

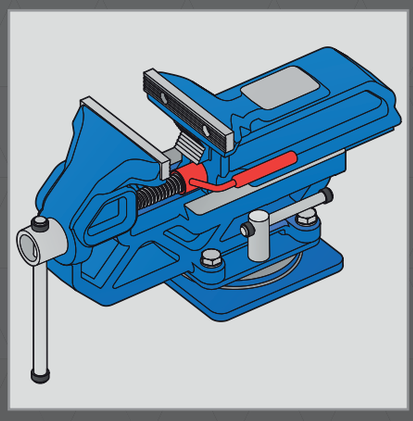
Designul studiat pentru a asigura un optim atat din punct de vedere al rezistentei cat si al ergonomiei asigura un lucru in deplina siguranta chiar si atunci cand apare o suprasarcina. Sculele Unior sunt adaptate profesionistilor cu o inalta exigenta calitativa, cu o durata de viata indelungata.

721/6
721Q/6

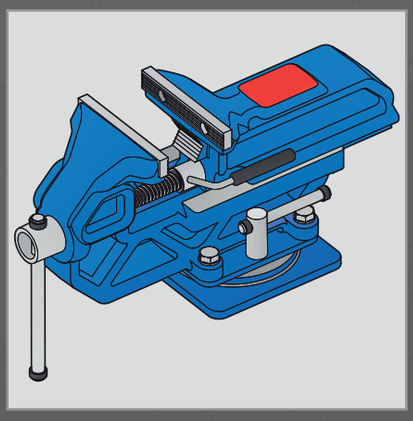




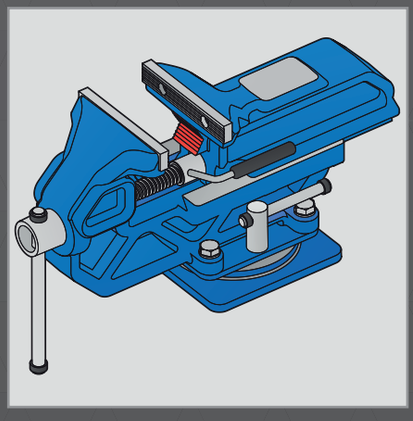
glisirele uniPRO asigura miscarea exacta a partii mobile



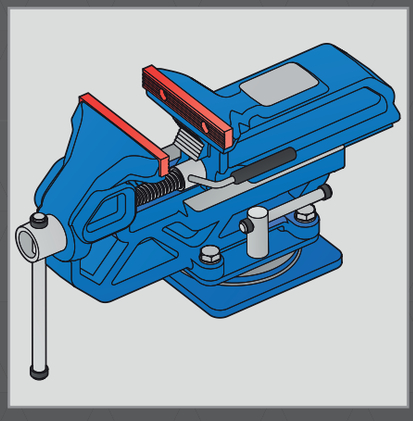
sistem rapid de miscare



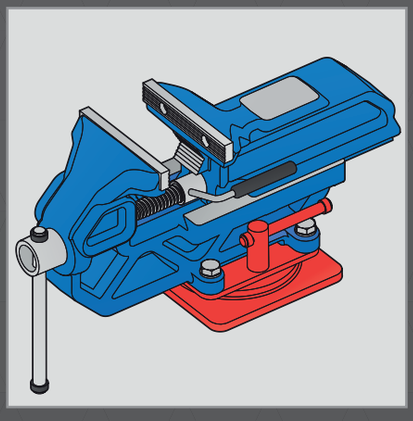
Suprafata de lucru rugoasa



Falci fixe pentru mentinerea tevii



bacuri forjate din otel, calite si revenite



baza menghinei poate fi rotita cu 360°

721/6

Menghina de banc tip IRONGATOR

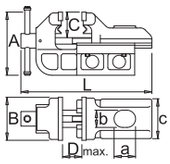
- *corpul din otel turnat*
- *bacuri forjate din otel carbon, calite si revenite*
- *carcasa vopsita,bacuri protejate anti-coroziune,celelalte parti zincate*
- *ax protejat impotriva deteriorarii*
- *glisirele uniPRO asigira miscarea exacta a partii mobile*
- *menghina poate fi combinata cu un suport rotitor*



UNIOR







	B	D	L		C	a	b	c	A				
621564	80	100	215	11 - 35	46	42	28	64	113	3500	1G	1	**494,14**
621481	125	160	336	17 - 62	73	66	44	95	176	14400	1G	1	**918,86**
621567	150	190	400	20 - 66	88	80	53	117	211	24200	1G	1	**1375,53**
621570	200	220	461	24 - 80	103	93	62	140	265	37800	1G	1	**1922,21**

721Q/6

Menghina de banc tip IRONGATOR cu sistem mobil rapid

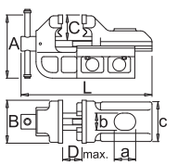
- *corpul din otel turnat*
- *bacuri forjate din otel carbon, calite si revenite*
- *carcasa vopsita,bacuri protejate anti-coroziune,celelalte parti zincate*
- *glisirele uniPRO asigira miscarea exacta a partii mobile*
- *menghina poate fi combinata cu un suport rotitor*
- *sistem rapid de miscare*



UNIOR







	B	D	L		C	a	b	c	A				
621482	125	120	336	17 - 62	77	66	44	95	176	14500	1G	1	**1343,38**
621568	150	190	400	20 - 66	88	80	53	117	211	23500	1G	1	**1661,71**

721.1/6

Corp pivotant principal pentru 721/6 si 721Q/6

- *corpul din otel turnat*
- *materialul altor parți:otel special de scule*
- *baza menghinei poate fi rotita cu 360°*



UNIOR

621566	80	2570	1F	1	**137,91**
621483	125	2575	1F	1	**269,06**
621569	150	2580	1F	1	**335,75**
621572	200	2585	1F	1	**450,36**

722.1/7

Bacuri de schimb pentru art. 722

- *material:otel special de scule*
- *forjate,tratate complet*
- *set de 2 piese*



UNIOR

	B				
623083	80	240	1E	1	**92,08**
619020	125	378	1E	1	**99,28**
619021	150	1030	1E	1	**165,59**
619023	200	1365	1E	1	**194,68**

722.1AL

Bacuri de schimb din aluminiu pentru 722/6

- *material: aluminiu*
- *set de 2 piese*



UNIOR

	B				
623084	80	110	1E	1	**92,08**
619026	125	156	1E	1	**98,85**
619027	150	400	1E	1	**165,59**
619029	200	541	1E	1	**194,68**



7722SQ

Menghina cu baza rotativa pentru banc

- *baza rotativa cu suruburi de fixare*
- *acoperire: vopsite*
- *falci striate, tratate*
- *ax si maner din otel forjat*

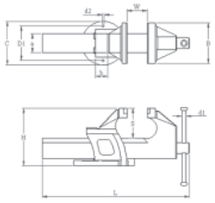
ATENTIE! Nticovala se utilizeaza numai pentru lucrari de finete



KRONUS







	B	W	L	S	C	d2	D1	H	d1	axb		
M16-80	80	80	235	50	103	10	95	106	8	38x25	3800	**203,79**
M16-100	100	100	275	55	112	10	96	111	8	40x28	4800	**247,98**
M16-125	125	125	350	72	140	11	125	145	10	56x26	8400	**349,04**
M16-150	150	150	390	90	165	12	146	173	10	70x38	11600	**467,50**
M16-200	200	200	470	90	170	12	147	180	10	75x48	18000	**673,09**
M16-250	250	250	565	116	190	13	285	240	14	98x75	37000	**1098,21**

7722.1

Baza rotativa pentru 7722

- *corpul din otel turnat*
- *materialul altor parți:otel special de scule*
- *baza menghinei poate fi rotita cu 360°*



KRONUS

900508	80	2570	**81,97**
900509	100	2570	**85,26**
900510	125	2575	**102,71**
900511	150	2580	**108,52**
900512	200	2585	**116,27**

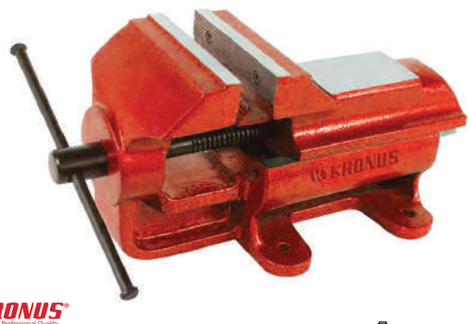


7722

Menghina universala pentru banc

- *realizata din fonta de inalta calitate*
- *falci forjate din otel carbon, interschimbabile*
- *acoperire: vopsire*
- *operare usoara*

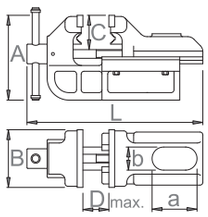
ATENTIE! Nicovala se utilizeaza numai pentru lucrari de finete



KRONUS







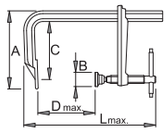
	B	A	C	D max.	L	a	b		
900503	80	120	55	100	225	52	40	5900	**243,38**
900504	100	155	63	115	292	81	51	9500	**347,84**
900505	125	170	71	160	325	93	58	13900	**472,24**
900506	150	195	85	175	370	116	66	22000	**672,22**
900507	200	205	88	215	440	147	83	29000	**916,72**

702/2MH

Menghina de tamplarie

- *material:otel special de scule*
- *tratament termic total*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*
- *destinate pentru industria de prelucrare a lemnului si constructii*
- *maner metalic*





UNIOR

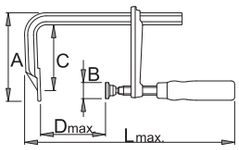
	DT	C	LT	A	B				
608433	120	100	330	155	25	705	2H	1	**100,01**
608434	160	100	370	155	25	750	2H	1	**108,87**
608435	200	100	410	155	25	800	2H	1	**130,95**
608436	250	100	460	155	25	855	2H	1	**158,68**
608360	300	120	550	180	35	1765	2H	1	**195,12**
608437	400	120	650	180	35	1975	2H	1	**229,99**
608438	500	120	750	180	35	2205	2H	1	**246,29**
608439	600	120	850	180	35	2395	2H	1	**261,22**
608441	1000	120	1250	180	35	3250	2H	1	**353,65**

702/2WH

Menghina de tamplarie

- *material:otel special de scule*
- *tratament termic total*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*
- *destinate pentru industria de prelucrare a lemnului si constructii*
- *maner din lemn lacuit*





UNIOR

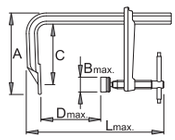
	D	C	L	A	B				
601783	120	100	330	155	25	740	2H	5	**100,26**
601784	160	100	370	155	25	800	2H	5	**116,41**
601785	200	100	410	155	25	840	2H	5	**140,29**
601786	250	100	460	155	25	900	2H	5	**169,92**
601787	300	120	550	180	35	1795	2H	2	**203,19**
601788	400	120	650	180	35	1995	2H	2	**239,33**
601789	500	120	750	180	35	2220	2H	2	**256,41**
601790	600	120	850	180	35	2410	2H	2	**278,59**
601792	1000	120	1250	180	35	3270	2H	2	**368,05**

705/2MH

Menghina pentru conditii grele

- *falca glisanta este forjata din otel special, tratata si acoperita galvanic*
- *partea mobila este interschimbabila asigurand strangeri ale pieselor profilate.Filetul executat prin rularea asigura o miscare usoara si o forta maxima de strangere*
- *Partea mobila, surubul si manerul sunt protejate impotriva coroziunii*





UNIOR

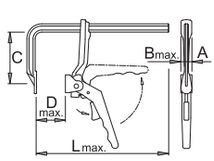
	D	C	L	A	B				
609974	160	140	370	155	30	1940	2H	2	**174,05**
609968	200	140	410	155	30	2040	2H	2	**206,06**
609982	250	140	460	155	30	2185	2H	2	**214,14**
609969	300	140	550	180	40	2295	2H	2	**261,03**
609970	400	140	650	180	40	2545	2H	2	**265,80**
609971	500	140	750	180	40	2810	2H	2	**302,09**
609975	600	140	850	180	40	3030	2H	2	**322,81**
609984	1000	140	1250	180	40	4100	2H	2	**390,62**

704/2

Menghina rapida

- *siguranta si forta in strangere obtinuta cu minim de efort*
- *falca fixa si cea glisanta sunt forjate din otel special de scule, tratate si acoperite galvanic*
- *deschiderea accidentala a strangerii este prevenita cu o siguranta*





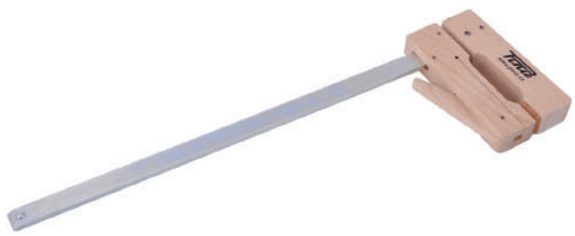
UNIOR

	D	C	L	A	B				
609961	160	120	360	25	25	1135	2H	5	**189,28**
609962	200	120	400	25	25	1185	2H	5	**195,99**
609963	250	120	450	25	25	1250	2H	5	**208,05**
609964	300	140	570	35	25	2515	2H	2	**278,59**
609965	400	140	670	35	35	2775	2H	2	**308,80**
609966	500	140	770	35	35	3045	2H	2	**336,33**

30

Strangator reglabil cu falci de lemn

• se utilizeaza la prinderea semifabricatului lemnos pe pozitit atunci cand strangatorul metalic este prea greu



Finie

	Dim.	L	H	I	G	
30-200	200x110	290	145	24	500g	**57,53**



FIERASTRAIE

PILANA

Productia in Hulin a inceput în anul 1934, cand a fost înfiintata firma cu numele „Prima fabrica moraviana de panze si unelte“. Compania producea doar panze manuale si circulare pentru taierea lemnului. Mai tarziu programul de productie a evoluat si alte unelte au fost create, cum ar fi benzi pentru lemn si cutite pentru rindeluit. In anii ‘60 a fost initiata producerea panzelor circulare pentru lemn cu placute vidia. Mai tarziu a inceput fabricarea fierastraielor cu cadru si a uneltelor pentru debitarea metalului.

JOSEF HAUNSTETTER

Mai mult de 100 de ani de experienta in producerea cadrelor de fierastrau de mana, precum si a panzelor de fierastrau, copiere si modelism au facut cunoscut brandul Haunstetter in intreaga lume. Dupa ce a trecut de la Augsburg-Göggingen la Augsburg-Haunstetten in spatii moderne de productie si administrare, in prezent firma isi fabrica produsele pentru cei peste 500 de clienti din aproximativ 40 de tari diferite, pe o suprafata mai mare de 2.800 m².

UNIOR PILANA Pilana METAL JOSEF HAUNSTETTER SÄGENFABRIK KG GEGRÜNDET 1916

PILANA

since 1934

Made in Czech Republic

Fierastrau pentru polistiren si izolatii

• fierastrau de mana profesional proiectat pentru taierea materialelor de izolare (polistiren extrudat XPS, polistiren expandat EPS, vata minerala, poliuretan (PUR), spuma
• maner ergonomic cu doua componente, inchis



• Continua sa taie pe intreaga perioada a utilizarii, pana la uzura definitive a lamei
• Un singur fierastrau este necesar in procesul de zidire al unei case, rezistenta mare la uzura
• Ceaprazul are dimensiunea de 0,5 conferind viteza crescuta de taiere



Fierastraie pentru gradinarit	248
Fierastraie pentru lemn	249
Pasuitoare	250
Traforaj	251
Minibomfaiere	252
Bomfaiere	252
Fierastraie pentru macelarie	253
Fierastraie pentru constructii	253

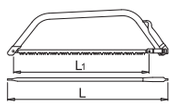


755

Fierastrau cu coarda, joagar

- *material:lama otel C75*
- *maner din otel*





UNIOR

	L1	L1	L				
612236	610	24"	700	580	1Z	1	**35,85**
609407	762	30"	850	750	1Z	1	**39,99**
609408	914	36"	1000	810	1Z	1	**46,89**

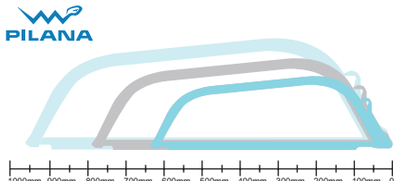
22 5254

Fierastrau cu parghie de intindere

- *fierastrau cu parghie de intindere universal pentru taierea lemnului uscat sau crud*
- *panza de rezerva cu dantura calita 22 5244.1*
- *dinti caliti cu durabilitate prelungita*



PILANA

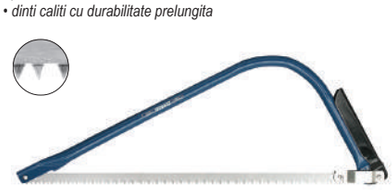


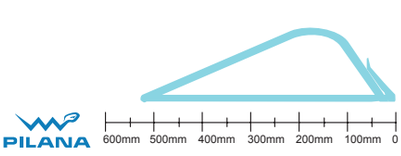
	L (mm)	V (mm)	m (kg)	
5254533000	530	190	0,63	**31,71**
5254610000	610	215	0,72	**34,30**
5254760000	760	230	0,75	**36,57**
5254800000	800	240	0,90	**39,64**
5254914000	914	250	0,99	**42,72**

22 5251

Fierastrau mic cu parghie de intindere

- *fierastrau cu parghie de intindere folosit pentru taierea crengilor de marime mijlocie si pentru intinerirea copacilor*
- *perfect pentru lucrul în spatiu restrans*
- *panza de rezerva 22 5249.1*
- *dinti caliti cu durabilitate prelungita*





	L (mm)	V (mm)	m (kg)	
5251000000	500	195	0,47	**29,77**

755.1

Panza de schimb pentru 755

UNIOR

	L1	L1				
612237	610	24"	50	1F	10	**10,70**
609409	762	30"	78	1F	10	**11,87**
609410	914	36"	95	1F	10	**13,52**

22 5244.1

Panza pentru fierastrau cu panghie de intindere pentru taierea lemnului uscat sau crud

- *panza de rezerva pentru fierastraie cu parghie de intindere*
- *ceaprazuire pentru taierea lemnului uscat sau crud*
- *dinti caliti cu durabilitate prelungita*



PILANA

	L (mm)	H (mm)	S (mm)	m (kg)	
5244153300	533	20	0,7	0,05	**9,40**
5244161000	610	20	0,7	0,07	**11,56**
5244176000	760	20	0,7	0,09	**13,41**
5244180000	800	20	0,7	0,09	**14,02**
5244190000	900	20	0,7	0,10	**15,10**
5244191400	914	20	0,7	0,10	**15,26**
5244110000	1000	20	0,7	0,11	**16,33**

22 5244.2

Panza pentru fierastrau cu panghie de intindere pentru taierea lemnului uscat

- *panza de fierastrau cu dantura triunghiulara pentru taierea lemnului uscat*
- *dinti intariti (64 HRc) pentru o utilizare indelungata*





PILANA

	L (mm)	H (mm)	S (mm)	m (kg)	
5244253300	533	20	0,7	0,05	**9,40**
5244261000	610	20	0,7	0,07	**11,56**
5244276000	760	20	0,7	0,09	**13,41**
5244280000	800	20	0,7	0,09	**14,02**
5244290000	900	20	0,7	0,10	**15,10**
5244291400	914	20	0,7	0,10	**15,26**

22 5249.1

Panza pentru fierastrau mic cu parghie de intindere

- *panza de rezerva pentru fierastrau mic cu parghie de intindere articol 225251*
- *dinti caliti cu durabilitate prelungita*



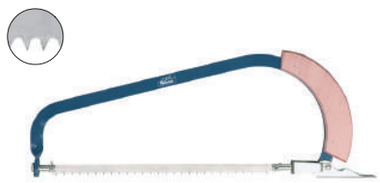
PILANA

	L (mm)	H (mm)	S (mm)	m (kg)	
5249150000	500	18	0,7	0,05	**8,94**

22 5263

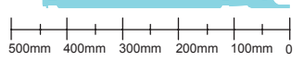
Fierastrau pentru gradinarit cu parghie de intindere

- *fierastrau de gradinarie folosit pentru taierea pomilor fructiferi si a tufelor*
- *intinderea panzei este de calitate, asigurata de parghia de intindere si a cadrului din otel plat*
- *posibilitatea alegerii unghiului de taiere*
- *orientarea si schimbarea rapida este simpla si rapida*





PILANA



	L (mm)	V (mm)	m (kg)	
5263000000	300	163	0,50	**39,69**

22 5267

Fierastrau pentru gradinarit

- *fierastrau care se monteaza pe prajina pentru taierea crengilor din coroanele copacilor*
- *intinderea panzei este de calitate, asigurata de parghia de intindere si a cadrului din otel plat*
- *posibilitatea alegerii unghiului de taiere*
- *orientarea si schimbarea panzei este simpla si rapida*





PILANA



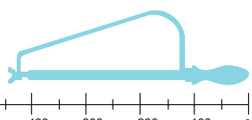
	L (mm)	V (mm)	m (kg)	
5267000000	300	160	0,57	**39,26**

22 5265

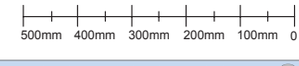
Fierastrau pentru gradinarit

- *fierastrau de gradinarie simplu pentru taierea pomilor fructiferi si a tufelor*
- *oportun pentru taierea crengilor de diametre mici si mijlocii*





PILANA



	L (mm)	V (mm)	m (kg)	
5265000000	300	143	0,316	**26,28**

22 5260

Panze pentru fierastrau pentru gradinarit

- *pentru fierastraiele 22 5263, 22 5265 a 22 5267*
- *panza cu dinti necaliti, drepti, pentru taierea lemnului crud*



PILANA

	L (mm)	H (mm)	T (mm)	m (kg)	
5260300000	300	15	5	0,015	**7,12**

22 5261

Panze pentru fierastrau pentru gradinarit

- *pentru fierastraiele 22 5263, 22 5265 a 22 5267*
- *panza de dinti necaliti, oblici pentru taierea lemnului uscat*



PILANA

	L (mm)	H (mm)	T (mm)	m (kg)	
5261300000	300	15	4	0,016	**6,47**

22 5262.15

Panze pentru fierastrau pentru gradinarit

- *pentru fierastraiele 22 5263, 22 5265 a 22 5267*
- *panza cu dintare grupata, calita pentru taierea lemnului uscat sau crud*



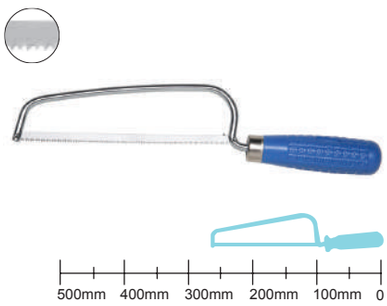
PILANA

	L (mm)	H (mm)	T (mm)	m (kg)	
5262300000	300	15	5	0,017	**5,66**

22 5264

Fierastrau mic pentru gradinarit

- *fierastrau cu dintare fina pentru taierea tufelor de coacaze si a trandafirilor*
- *cadru solid cu mâner de plastic*
- *panza de rezerva 22 5264.1, latimea 7,5 mm*



PILANA

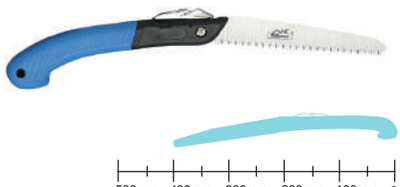
	L (mm)	V (mm)	m (kg)	
5264000000	165	58	0,096	**14,67**

L - lungimea panzei de fierastrau, **S** - grosimea panzei de fierastrau, **H** - latimea panzei de fierastrau, **V** - inaltimea fierastraului, **T** - pasul dintilor, **m** - greutate

22 5296

Fierastrau rabatabil pentru gradinarit

- *fierastrau cu maner de plastic pentru taierea copacilor si a tufelor*
- *dinti cu trei muchii de taiere pentru o taietura usoara si rapida*
- *rabatabil si stocare sigura*



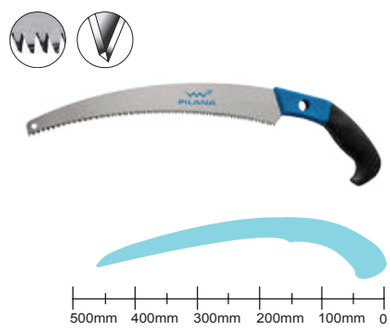
PILANA

	L (mm)	S (mm)	T (mm)	m (kg)	
5296000000	300	1,3	3,6	0,24	**34,30**

22 5298

Fierastrau curbat pentru gradinarit

- *fierastrau cu maner de plastic pentru taierea copacilor si a tufelor*
- *dinti cu trei muchii de taiere pentru o taietura usoara si rapida*



PILANA

	L (mm)	S (mm)	T (mm)	m (kg)	
5298000000	330	1,2	3,6	0,22	**38.83**

752

Fierastrau coada de vulpe

- *material:lama otel special de scule*
- *maner din polistiren*



UNIOR

	L1	L				
609424	330	497	270	TZ	1	**71,31**

22 5297.1

Fierastrau pentru gradinarit

- *fierastrau cu maner de plastic pentru taierea copacilor si a tufelor*
- *dinti cu trei muchii de taiere pentru o taietura usoara si rapida*



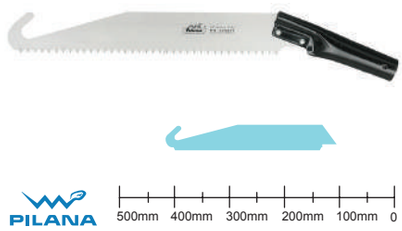
PILANA

	L (mm)	S (mm)	T (mm)	m (kg)	
5297000000	300	1,2	3,6	0,22	**32,36**

22 5299

Fierastrau cu carlig pentru gradinarit

- *fierastrau pentru montarea pe prajina pentru taierea crengilor la care se ajunge cu greu*
- *carlig pentru agatarea crengilor taiate*



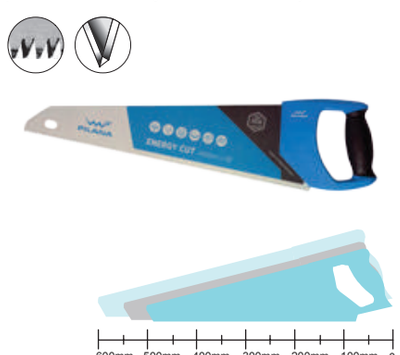
PILANA

	L (mm)	S (mm)	T (mm)	m (kg)	
5299000000	300	1,2	5	0,26	**27,02**

22 5286.01A

Fierastrau "Coada de vulpe" cu maner inchis din plastic

- *fierastrau pentru taierea lemnului si a plasticului*
- *maner închis din plastic,2 parti*
- *dinti caliti cu trei muchii de taiere pentru o taiere simpla si rapida*
- *posibilitatea masurarii unghiului de 45° si 90° cu ajutorul manerului*



PILANA

	L (mm)	S (mm)	T (mm)	m (kg)	
5286140000	400	0,8	3,60	0,39	**39,80**
5286145000	450	0,8	3,60	0,43	**43,04**
5286150000	500	1,0	3,60	0,49	**45,95**

757

Fierastrau "Coada de vulpe" cu maner inchis din plastic

- *material: lama otel special de scule*
- *maner din polistiren*



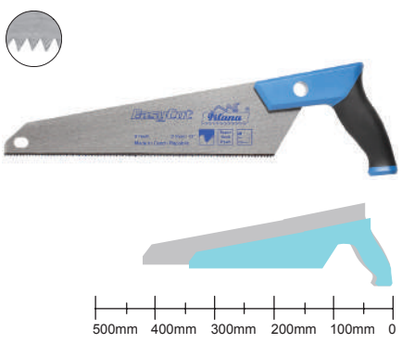
UNIOR

	L1	L				
609423	400	493	408	TC	1	**56,43**

22 5285A

Fierastrau "Coada de vulpe" cu maner deschis

- *fierastrau pentru taierea lemnului si a plasticului*
- *maner deschis din plastic*
- *dinti caliti cu trei muchii de taiere pentru o taiere rapida si simpla*



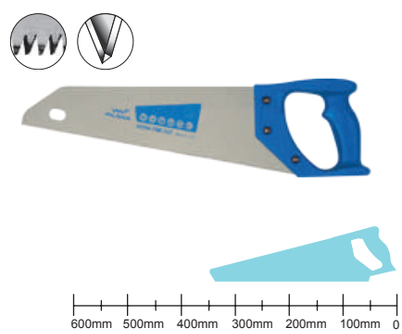
PILANA

	L (mm)	S (mm)	T (mm)	m (kg)	
5285250000	250	0,8	3,15	0,19	**23,14**
5285315000	315	0,8	3,15	0,23	**26,54**

22 5286.1A

Fierastrau "Coada de vulpe" cu maner inchis

- *fierastrau pentru taierea lemnului si a plasticului*
- *maner închis din plastic*
- *dinti caliti cu trei muchii de taiere pentru o taiere simpla si rapida*
- *posibilitatea masurarii unghiului de 45° si 90° cu ajutorul manerului*



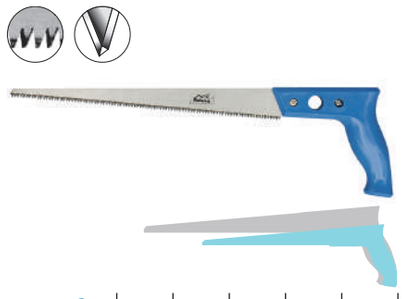
PILANA

	L (mm)	S (mm)	T (mm)	m (kg)	
5286130000	300	0,9	3,6	0,30	**29,61**

22 5291.1A

Fierastrau pentru perforare

- *fierastrau pentru realizarea de gauri in lemn sau in plastic*
- *maner deschis din plastic*
- *dinti caliti cu trei muchii de taiere pentru o taiere simpla si rapida*



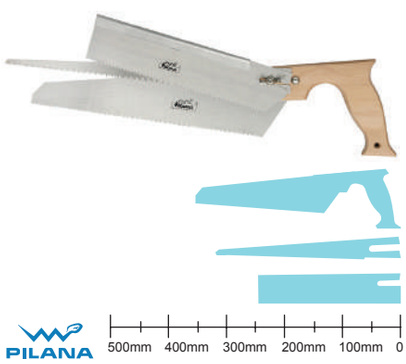
PILANA

	L (mm)	S (mm)	T (mm)	m (kg)	
5291250000	250	1,1	3,20	0,19	**24,59**
5291315000	315	1,1	3,20	0,26	**29,29**

22 5292

Fierastrau "Coada de vulpe" cu trei panze interschimbabile

- *fierastrau universal cu trei panze interschimbabile (pasuitor, fierastrau "Coada vulpe", fierastrau pentru perforare)*
- *dinti necaliti pentru o taiere fina si dreapta, posibilitatea reascutirii*
- *maner traditional din lemn*



PILANA

	L (mm)	S (mm)	T (mm)	m (kg)	
5292000000	250	0,60	2,05	0,49	**51,94**
	315	1,20	3,60	0,49	
	315	0,80	3,60	0,49	

22 5284

Pasuitor cu lama rotunjita 300 mm

- *fierastrau profesional pentru taierea materialelor cu grosimi mici si medii: lemn, placaj, laminat, materiale plastice, PAL, lamele din polistiren, plastic, HDF, lemn etc.*
- *rotunjit, varf cu dinti pentru strapungere in mijlocul suprafetei piesei de prelucrat*
- *dantura universala fina (12 TPI) special adaptată pentru taierea lemnului cu diametru mic si taierea cu ghidaj pentru taieri unghiulare*
- *dinti intariti (64 HRc) pentru o utilizare indelungata*
- *maner ergonomic inchis, cu doua componente*



PILANA

	L (mm)	T (mm)	
5284000000	300	12 TPI	**33,17**

22 5283

Pasuitor cu lama dreapta 300 mm

- *fierastrau profesional pentru taierea materialelor cu grosimi mici si medii: lemn, placaj, laminat, materiale plastice, PAL, lamele din polistiren, plastic, HDF, lemn etc.*
- *dantura universala fina (12 TPI) special adaptată pentru taierea lemnului cu diametru mic si taierea cu ghidaj pentru taieri unghiulare*
- *dinti intariti (64 HRc) pentru o utilizare indelungata*
- *maner ergonomic inchis, cu doua componente*



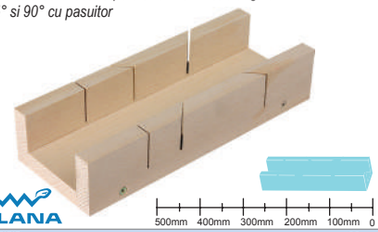
PILANA

	L (mm)	T (mm)	
5283000000	300	12 TPI	**31,55**

31 6053

Cutie echer

- *pentru taierea exactă a partilor din lemn sub unghiul de 45° si 90° cu pasuitor*



PILANA

	L (mm)	H (mm)	m (kg)	
3160530000	250	97/65	0,56	**35,44**

27-300653819

Cutie sablon din lemn cu 1 surub reglaj pentru taiere la 45°/90°

- *se utilizeaza la taierea semifabricatelor din lemn la 90° sau la 45° sau oblic*
- *la 45°, are un surub de prindere semifabricat*



Finie

	Dim.	L	H	I	
27-300653819	19	300	65	38	**64,72**

28-300653819

Cutie sablon din lemn cu 2 suruburi de reglaj pentru taiere la 45°/90°

- *se utilizeaza la taierea semifabricatelor din lemn la 90° sau la 45° sau oblic*
- *la 45°, are doua suruburi de prindere semifabricat*



Finie

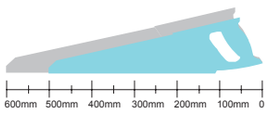
	Dim.	L	H	I	
28-300653819	19	300	65	38	**84,14**

22 5286.B

Fierastrau coada de vulpe

- *fierastrau pentru tsierea lemnului di a plasticului*
- *maner traditional din lemn*
- *dinti caliti cu trei muchii de taiere pentru o taiere simpla si rapida*





PILANA

600mm 500mm 400mm 300mm 200mm 100mm 0

	L (mm)	S (mm)	T (mm)	m (kg)	
5286240000	400	0,80	3,6	0,42	**43,36**
5286250000	500	1,00	3,6	0,56	**48,86**

22 5281

Pasuitor cu maner intors

- *fierastrau de masa cu maner întors asigura taierea fina si dreapta*
- *dinti fini necaliti pentru o taietura fina si dreapta*
- *soliditate mare asigurata de spatele armat*



PILANA

500mm 400mm 300mm 200mm 100mm 0

	L (mm)	S (mm)	T (mm)	m (kg)	
5281000000	250	0,65	2,5	0,25	**27,63**

22 5280

Pasuitor drept

- *fierastrau de masa pentru taierea in unghi si taierea transversala a lemnului*
- *dinti fini, necaliti, pentru o taietura fina si dreapta*
- *spate armat*
- *perfect pentru taierea in cutie echer*



PILANA

500mm 400mm 300mm 200mm 100mm 0

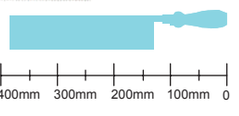
	L (mm)	S (mm)	T (mm)	m (kg)	
5280000000	250	0,65	2,5	0,17	**23,30**

22 5282

Pasuitor cu maner basculant

- *fierastrau de masa pentru taierea in spatiu restrans*
- *maner basculant cu posibilitatea taierii pe partea dreapta sau stanga*
- *dinti fini necaliti pentru o taiere fina si dreapta*
- *soliditate mare asigurata de spatele armat*





PILANA

500mm 400mm 300mm 200mm 100mm 0

	L (mm)	S (mm)	T (mm)	m (kg)	
5282000000	250	0,65	2,5	0,29	**30,12**

22 5269

Cadru pentru traforaj

- *cadru cu maner din plastic pentru lucru mic si exact*
- *combinatie perfecta impreuna cu panza adecvata pentru taierea lemnului, placajului, plasticului si metalelor*
- *adancimea cadrului 300 mm*





PILANA

500mm 400mm 300mm 200mm 100mm 0

	L (mm)	V (mm)	m (kg)	
5269000000	120	300	0,36	**18,13**

490002

Placa traforare din lemn de fag

- *se monteaza pe bancul de lucru cu ajutorul menghinei*
- *simplifica traforarea si taierea metalelor, lemnului, plasticului etc.*
- *dimensiuni: 170 mm x 65 mm x 10 mm*



JOSEF HAUNSTETTER

	L (mm)	l (mm)	H (mm)	m (kg)	
490002	250	65	10	0,068	**16,64**

490003

Menghina pentru placa traforare

- *dimensiune: 50 mm*



JOSEF HAUNSTETTER

	L (mm)	m (kg)	
490003	50	0,070	**18,34**

22 5270

Panza pentru fierastrau pentru tamplarie cu cadru

- *panze pentru fierastrau cu dintare inclinata pentru taiere longitudinala si transversala a bucatilor mari de lemn*



PILANA

	L (mm)	H (mm)	T (mm)	m (kg)	
5270800000	800	40	5	0,123	**13,59**

22 5271

Panza pentru fierastrau pentru tamplarie cu cadru

- *panza cu dintare inclinata pentru taiere longitudinala si transversala a bucatilor mici si mijlocii din lemn*



PILANA

	L (mm)	H (mm)	T (mm)	m (kg)	
5271800000	800	40	3,15	0,129	**12,06**

23 5272

Panza pentru fierastrau pentru tamplarie cu cadru

- *panza pentru fierastrau de tamplarie cu dintare cu brate egale pentru taierea transversala a bucatilor din lemn*



PILANA

	L (mm)	H (mm)	T (mm)	m (kg)	
5272800000	800	40	6,3	0,118	**13,59**

23 5273

Panza pentru fierastrau pentru tamplarie cu cadru

- *panza pentru gravura cu dintare inclinata pentru taierea gaurilor in bucati de lemn*



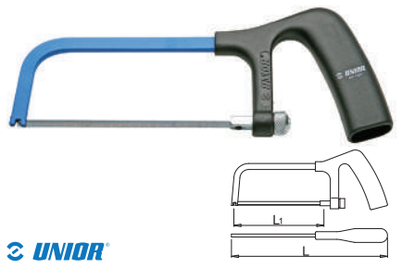
PILANA

	L (mm)	H (mm)	T (mm)	m (kg)	
5273800000	800	40	2,5	0,024	**7,31**

753P

Fierastrau

- *maner de plastic*
- *lama interschimbabila*



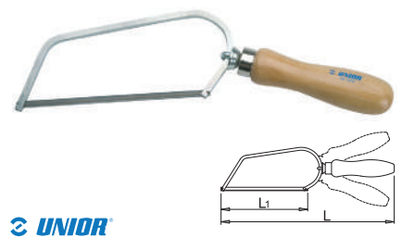
UNIOR

	L1	L				
612164	150	260	192	1Z	1	**47,19**

753W

Fierastrau cu maner reglabil

- *maner de lemn*
- *maner reglabil*
- *lama interschimbabila*



UNIOR

	L1	L				
612163	150	305	127	1Z	10	**32,45**

305100

Fierastrau cu maner fix

- *fierastrau PUK Junior cu maner fix din lemn de fag*
- *rama zincata, din otel rotund de 6 mm*
- *prevazut cu o panza de fierastrau universala PUK 310, 150 mm*

PUK® 305



JOSEF HAUNSTETTER

	L (mm)	m (kg)	
305100	290	0,098	**38,22**

306125

Fierastrau cu maner fix

- *fierastrau PUK Junior cu maner fix din plastic*
- *rama brunata, din otel rotund de 6 mm*
- *prevazut cu o panza de fierastrau universala PUK 310, 150 mm*

PUK® 2000



JOSEF HAUNSTETTER

	L (mm)	m (kg)	
306125	240	0,126	**35,13**

308150

Fierastrau cu maner fix

- *rama brunata, din otel rotund de 6 mm*
- *prevazut cu o panza de fierastrau universala PUK 310, 150 mm*

PUKY®



JOSEF HAUNSTETTER

	L (mm)	m (kg)	
308150	260	0,098	**15,71**

150100

Fierastrau cu maner fix

- *rama brunata, din otel rotund de 6 mm*
- *prevazut cu o panza de fierastrau universala PUK 310, 150 mm*

PUK® VARIO 150



JOSEF HAUNSTETTER

	L (mm)	m (kg)	
150100	260	0,170	**47,77**

750

Cadru bomfaier

- *constructie usoara cu design al manerului ergonomic*
- *trei pozitii ale lamei*
- *max 5 lame de schimb depozitate in rama*
- *rama cromata, maner vopsit albastru*
- *art. 750/1 cu o lama*



UNIOR

	L	L1	L1				
601890	407	310	12"	780	1Z	1	**159,36**

750B

Cadru bomfaier

- *constructie usoara cu design al manerului ergonomic*
- *rama cromata, maner vopsit albastru*
- *2 pozitii ale lamei*



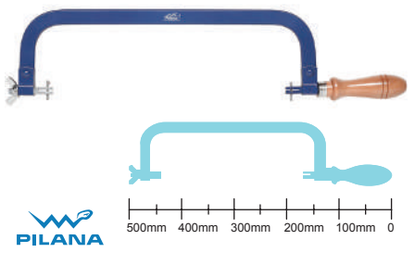
UNIOR

	L	L1				
621531	400	300	731	1Z	1	**102,35**

22 2956

Cadru bomfaier pentru metale

- *cadru masiv din otel plat*
- *combinatia perfecta, impreuna cu panza de fierastrau, pentru taierea otelului, a neferoaselor si a plasticului*
- *posibilitatea montarii tuturor sortimentelor de panze si de orice latime*



PILANA

	L (mm)	V (mm)	m (kg)	
2956000000	300	115	0,62	**31,39**

22 2957

Cadru bomfaier - ALU Profil

- *fierastrau profesional avand cadrul din aliaj de aluminiu*
- *mecanism de întindere pentru înlocuirea usoara a panzei*
- *posibilitatea prinderii panzei chiar si sub un unghi de 45°*
- *panza de rezerva, latimea de 13 mm*
- *magazie pentru 10 panze*



PILANA

	L (mm)	V (mm)	m (kg)	
2957000000	300	158	0,64	**53,72**

MP-01

Mini-bomfaier 300 mm

- *forma de prezentare este de tip blister cartonat cu agatare in partea superioara, produsul fiind solidarizat de blister cu prindere din plastic prin panza.*
- *marcajele sunt vizibile, Made in Czech Republic. EAN*
- *usurinta in utilizare in spatii greu accesibile*
- *maner ergonomic asigurand confort si protectie in timpul taierii*
- *prinderea lamei de maner este metalica asigurand o rezistenta crescuta*
- *panza este bi-metal, fiind flexibila si solida*
- *lungime maner :200mm*
- *lungime totala: 320mm*
- *specificatii lama : 300x13x0.65 mm - Bi-Metal , 24TPI*



Pilana METAL

	L (mm)	V (mm)	m (kg)	
MP-01	300		0,24	**25,89**

HH-01

Mini-bomfaier 300 mm

- *panza din otel carbon cu doua danturi diferite (una pentru metal si a doua pentru plastic)*
- *maner usor*
- *produsul DIY utilizat in principal pentru lucrari mici*



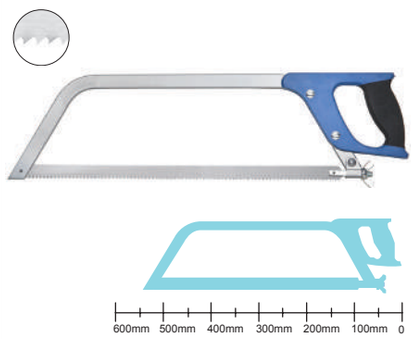
Pilana METAL

	L (mm)	V (mm)	m (kg)	
HH-01	300		0,27	**14,64**

22 5257

Fierastrau de macelarie

- *fierastrau de macelarie pentru taierea oaselor in industria de carne*
- *cadru din otel plat masiv*
- *componente cromate*
- *mâner din lemn lacuit*
- *panza de rezerva din otel, cod 22 5256*



PILANA

	L (mm)	V (mm)	m (kg)	
5257000000	450	158	0,79	**57,69**

22 5256

Panze pentru fierastrau de macelarie

- *pas optimal pentru tăierea simpla si rapida*



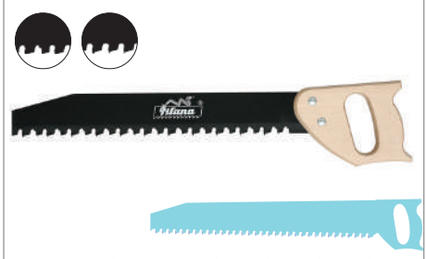
PILANA

	L (mm)	H (mm)	T (mm)	m (kg)	
5256000000	450	20	2,5	0,05	**12,02**

22 5287

Fierastrau "Coada de vulpe" cu placute din carbura metalica

- *fierastrau profesional pentru taierea BCA-ului*
- *panza dura si lunga din otel*
- *placutele de taiere din carbura metalica asigura performanta inalta de taiere de lunga durata*
- *posibilitatea variantei economice cu placute pe fiecare al doilea dinte*
- *maner din lemn masiv*



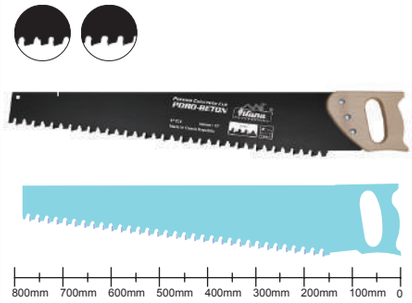
PILANA

	Nr. dinti	L (mm)	B (mm)	m (kg)	
5287114500	11	450	3,00	0,54	**86,30**
5287224500	21	450	3,00	0,54	**101,55**

22 5289

Fierastrau "Coada de vulpe" cu placute din carbura metalica

- *fierastrau profesional pentru taierea BCA-ului*
- *panza din otel dur*
- *placutele de taiere din carbura metalica care asigura performanta inalta de taiere pe un termen lung*
- *posibilitatea variantei economice cu placute pe fiecare al doilea dinte*
- *maner din lemn masiv*



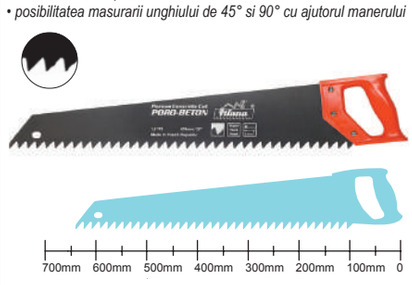
PILANA

	Nr. dinti	L (mm)	B (mm)	m (kg)	
5289176300	17	630	3,00	1,16	**146,39**
5289346300	34	630	3,00	1,16	**173,05**

22 5288

Fierastrau "Coada de vulpe" fara placute din carbura metalica

- *fierastrau pentru taierea BCA-ului*
- *panza din otel foarte lunga, cu dinti separati*
- *maner inchis din plastic*
- *posibilitatea masurarii unghiului de 45° si 90° cu ajutorul manerului*



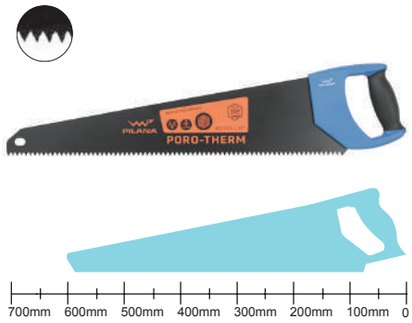
PILANA

	Nr. dinti	L (mm)	S (mm)	m (kg)	
5288630000	34	630	1,2	0,64	**97,70**

22 5290

Fierastrau pentru caramida cu goluri PORO-THERM

- *fierastrau de mana profesional proiectat pentru taierea caramizilor cu goluri (POROTHERM)*
- *dinti durificati (64 HRC)*
- *maner ergonomic cu doua componente, inchis*



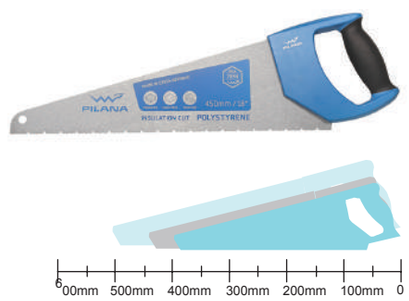
PILANA

	Nr. dinti	L (mm)	S (mm)	m (kg)	
5290600000	78	600	8,1	0,57	**75,51**

22 5293

Fierastrau pentru polistiren si izolatii

- *fierastrau de mana profesional proiectat pentru taierea materialelor de izolare (polistiren extrudat XPS, polistiren expandat EPS, vata minerala, poliuretan (PUR), spuma*
- *maner ergonomic cu doua componente, inchis*



PILANA

	L (mm)	V (mm)	m (kg)	
5293040000	400			**39,80**
5293045000	450			**43,04**
5293050000	500			**45,95**



SURUBELNITE

Manere cu design ergonomic

La calitatea superioara a materialelor folosite pentru gama de surubelnite Unior se adauga manere de conceptie ergonomica care permit o excelenta calitate a prizei.

Manere tri material

Multumita asocierii suprafetelor rigide cu cele mai moi, manerul special cu trei componente (brevetat Unior) permite o folosire eficace si confortabila care solicita putin incheietura in timpul lucrului

Priza antiderapanta

Concepute pentru a se adapta la o mare varietate de profile de suruburi si avand un maner din tricomponent, surubelnitele Unior asigura o mare eficacitate si o priza anti alunecare.

UNIOR

Manerele TBI pentru surubelnite sunt compuse din trei straturi, dupa cum urmeaza:

Strat 1: Polipropilena neagra, care inconjura axul surubelnitei si care este extrem de dura si aderenta, prevenind roitrea axului in maner la cupluri mari

Strat 2: Polipropilena albastra, care incoonjoara primul strat. Este foarte rigida si asigura forma constanta a manerului fata de diverse solicitari exterioare.

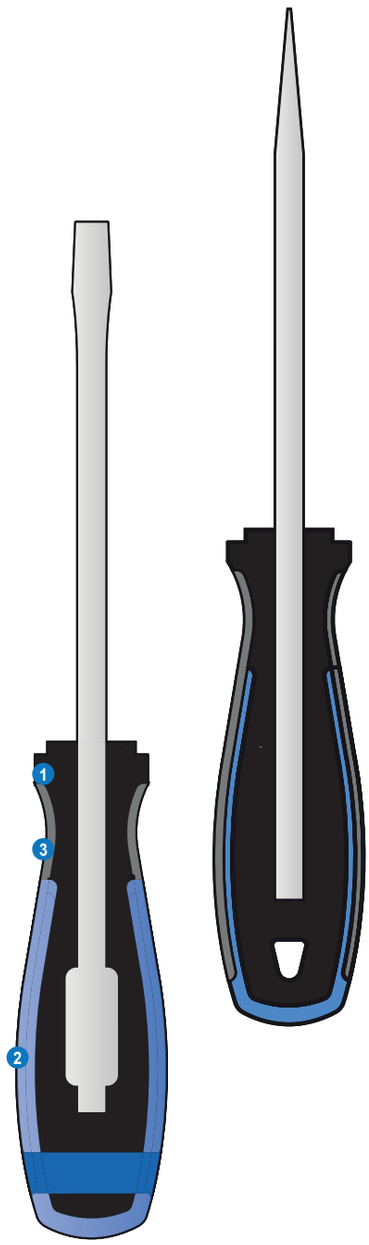
Strat 3: TPE gri (elastomer termoplastic) care inconjura partial stratul 2 al manrerulu, este un material de rezistenta medie care da manerului forma finala ergonomica, asigura o prindere placuta si aderenta si - consecinta - realizarea unor cupluri mari.

Capabile sa se potriveasca cu o varietate mare de profiluri de suruburi si avanad manerele tri-component, surubelnitele Unior asigura o eficienta sporita si o prindere antiderapanta

Surubelnitele sunt facute din otel crom-vanadiu-molybden si sunt in plus cromate sau nichelate. Calitatea superioara a materialelor folosite in linia Unior de surubelnite este complementata de manerele ergonomice care furnizeaza o prindere excelenta.

Cu combinatia de suprafete dure si moi, manerele speciale din trei componente - un patent Unior - asigura confortul si performanta eficienta cu tensiuni minime asupra incheieturii in timpul lucrului.

Impreuna cu consistenta variata a manerului de plastic, practic eliminand riscul de alunecare a surubelnitei in mana, prinderea imbunatatita asigura de asemenea si un cuplu sporit. Acesta poate fi obtinut si prin intorducerea unei tije in perforatia facuta in acest scop in toate manerele, gaura care poate fi folosita si la agatarea la depozitare.



Surubelnite drepte	257
Surubelnite cu profil Phillips	259
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Surubelnite cu cap sferic si pentru cap hexagonal	261
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Seturi de surubelnite	262
Magnetizor	265

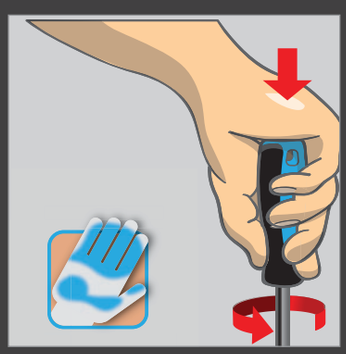


Cuplu de strangere mai mare

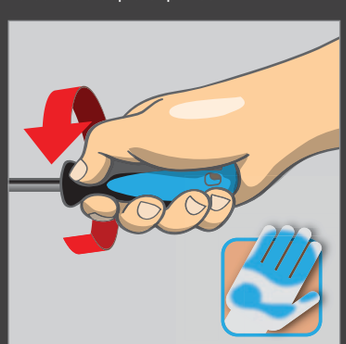
Nu numai ca materialul compozit al manerului elimina practic orice risc de alunecare a surubelnitei in mana, dar cea mai buna calitate a prizei obtinuta in acest fel este obtinerea unui cuplu de strangere mai mare. Acelasi efect poate fi obtinut de asemenea (cu exceptia manerelor de lemn) inserand o tija in gaura adaugata in acest scop tuturor manerelor noastre si care poate de asemenea servi la o mai buna organizare prin suspendare

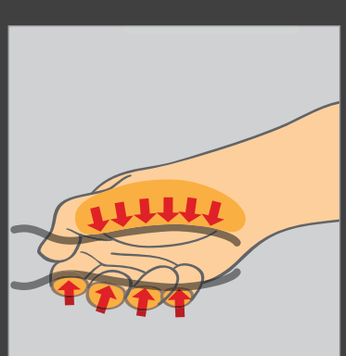
MANER ERGONOMIC

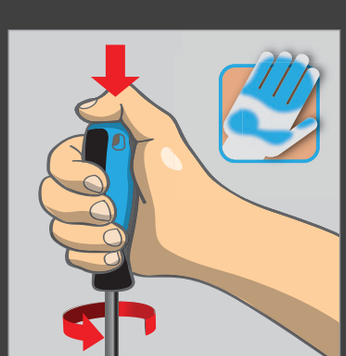
Combinatia de suprafete dure si moi imbunatateste factorul de incarcare si asigura insurubarea usoara. Manerul a fost conceput in asa fel incat are grija de sanatatea utilizatorului pentru ca reduce tensiunea in muschii mainii



Suprafata maximala de contact a mainii = valoare de cuplu superioara



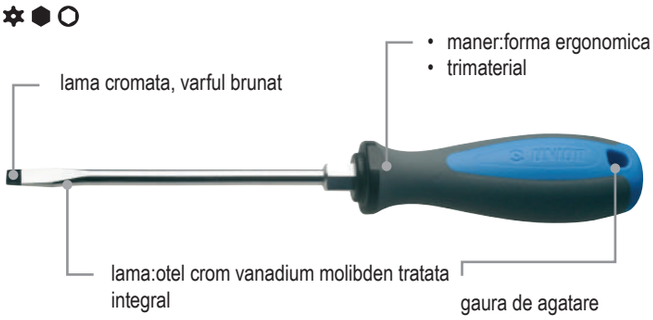




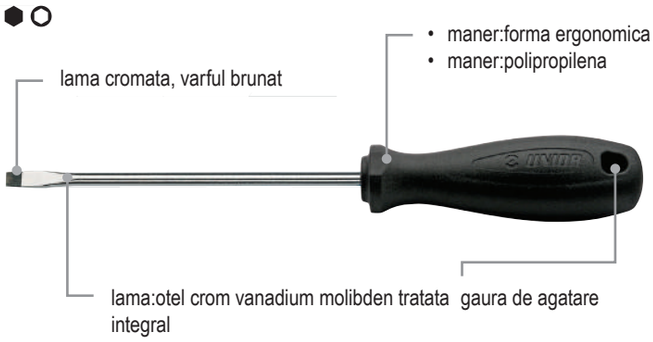
Conceptia ergonomic a manerului = protejarea mainii

Caracteristicile surubelnitelor Unior

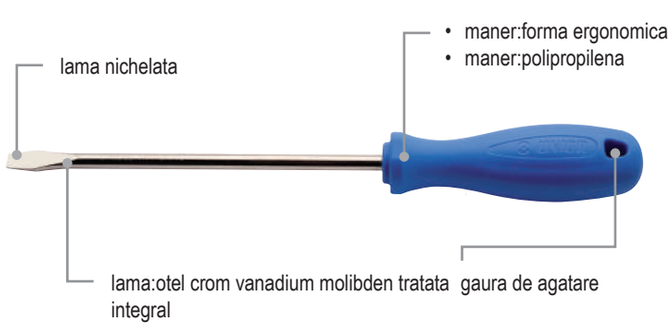










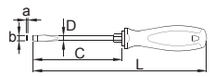


600TBI

Surubelnita lata, mecanica cu hexagon maner trimaterial TBI, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





UNIOR

	a x b	C	L	D	⬢				
611680	1.0 x 5.5	100	200	5	8	68	4B	10	**26,90**
611681	1.2 x 6.5	125	235	6	10	103	4B	10	**35,32**
611682	1.2 x 8.0	150	270	7	13	143	4B	5	**42,27**
611683	1.6 x 10.0	175	295	8	13	171	4B	5	**47,14**

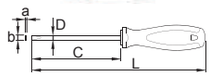
602TBI

Surubelnita lata pentru electricieni maner trimaterial TBI, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*



UNIOR



	a x b	C	L	D				
612797	0.4 x 2.5	60	145	2.5	33	4B	10	**14,89**
612798	0.4 x 2.5	75	160	2.5	33	4B	10	**15,08**
611684	0.5 x 3.0	100	185	3	37	4B	10	**15,42**
612799	0.5 x 3.0	150	235	3	39	4B	10	**17,56**
612800	0.6 x 3.5	100	185	3.5	39	4B	10	**18,63**
612801	0.8 x 4.0	100	185	4	43	4B	10	**18,83**
611685	0.8 x 4.0	125	210	4	45	4B	10	**19,36**
612802	0.8 x 4.0	150	235	4	48	4B	10	**19,99**
612803	0.8 x 4.0	250	335	4	56	4B	10	**23,93**
612804	1.0 x 5.5	125	225	5.5	75	4B	10	**25,78**
611686	1.0 x 5.5	150	250	5.5	81	4B	10	**26,07**
616843	1.0 x 5.5	280	380	5.5	103	4B	5	**37,07**
612805	1.2 x 6.5	150	260	6.5	113	4B	10	**31,42**
616844	1.2 x 6.5	280	390	6.5	145	4B	5	**43,15**
612806	1.2 x 8.0	175	295	8	163	4B	5	**37,85**

SURUBELNITE CU MANER TRIMATERIAL

Maner cu forma ergonomica
Calitatea superioara a materialelor utilizate in gama de surubelnite Unior este completata de manerul cu forma ergonomica pentru a oferi o prindere excelenta.

Moment de torsiune marit
Odata cu consistenta variata a manerului de plastic eliminand practic pericolul de a aluneca surubelnita in palma, manerul imbunatatit asigura de asemenea si o strangere mai buna. Acest lucru poate fi, de asemenea, realizat prin inserarea unei tije in gaura manerului, adaugata cu acest scop, la toate manerele (cu exceptia surubelnitelor cu maner de lemn), functionand de asemena si ca locas pentru agatat.

Material cu trei componente
Prin combinatia sa de materiale netede si aspre, manerul special cu trei componente - brevetat Unior - asigura confort si performanta cu minim de efort in timpul lucrului.

Aderenta maxima
Capabile sa asigure o varietate diversa de profile, manerele inovatoare cu trei componente confera surubelnitelor Unior o inalta eficienta si maxima aderenta.



Suprafata de contact mare = mai multa forta de torsiune





Forma ergonomica a manerului = protectia mainii



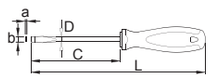
UNIOR®

605TBI

Surubelnita lata, maner trimaterial TBI, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





UNIOR

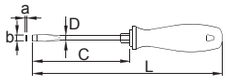
	a x b	C	L	D				
612810	0.4 x 2.5	60	145	2.5	33	4B	10	**14,89**
611687	0.4 x 2.5	75	160	2.5	34	4B	10	**14,93**
611688	0.5 x 3.0	80	165	3	35	4B	10	**15,08**
612811	0.5 x 3.0	100	185	3	37	4B	10	**15,37**
611689	0.5 x 3.0	125	210	3	37	4B	10	**16,20**
612812	0.5 x 3.0	150	235	3	39	4B	10	**17,32**
612813	0.6 x 3.5	75	160	3.5	37	4B	10	**17,32**
611690	0.6 x 3.5	100	185	3.5	39	4B	10	**17,66**
611691	0.6 x 3.5	125	210	3.5	40	4B	10	**17,90**
611692	0.8 x 4.0	100	185	4	41	4B	10	**18,05**
612814	0.8 x 4.0	125	210	4	44	4B	10	**18,92**
611693	0.8 x 4.0	150	235	4	46	4B	10	**20,82**
612815	0.8 x 4.0	200	285	4	53	4B	10	**23,45**
612816	1.0 x 5.5	100	200	5	68	4B	10	**23,74**
611694	1.0 x 5.5	125	225	5.5	70	4B	10	**23,69**
611695	1.0 x 5.5	150	250	5	74	4B	10	**23,84**
612817	1.2 x 6.5	100	210	6	93	4B	10	**29,14**
612818	1.2 x 6.5	125	235	6	98	4B	10	**29,62**
611696	1.2 x 6.5	150	260	6	103	4B	10	**29,33**
611697	1.2 x 6.5	200	310	6	115	4B	10	**34,49**
611698	1.2 x 8.0	175	295	7	143	4B	5	**35,02**
612819	1.6 x 8.0	175	295	7	143	4B	5	**36,34**
611699	1.6 x 10.0	200	320	8	173	4B	5	**40,91**
611700	2.0 x 12.0	250	370	9	223	4B	5	**55,65**

600CR

Surubelnita lata, mecanica cu hexagon maner polipropilena, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *maner-polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





UNIOR

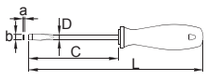
	a x b	C	L	D					
616322	1.0 x 5.5	100	200	5	8	68	4B	10	**19,65**
616323	1.2 x 6.5	125	235	6	10	103	4B	10	**26,61**
616324	1.2 x 8.0	150	270	7	13	143	4B	5	**31,96**
616325	1.6 x 10.0	175	295	8	13	171	4B	5	**38,04**

605CR

Surubelnita lata, maner polipropilena, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *maner-polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





UNIOR

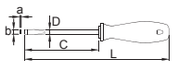
	a x b	C	L	D				
616338	0.4 x 2.5	60	145	2.5	33	4B	10	**8,95**
616339	0.4 x 2.5	75	160	2.5	34	4B	10	**8,95**
616340	0.5 x 3.0	80	165	3	35	4B	10	**10,56**
616341	0.5 x 3.0	100	185	3	37	4B	10	**10,80**
616342	0.5 x 3.0	150	235	3	39	4B	10	**12,02**
616343	0.6 x 3.5	75	160	3.5	37	4B	10	**11,63**
616344	0.6 x 3.5	100	185	3.5	39	4B	10	**11,63**
616345	0.6 x 3.5	125	210	3.5	40	4B	10	**12,02**
616346	0.8 x 4.0	100	185	4	41	4B	10	**12,70**
616347	0.8 x 4.0	125	210	4	44	4B	10	**13,23**
616348	0.8 x 4.0	150	235	4	46	4B	10	**13,62**
616349	0.8 x 4.0	200	285	4	53	4B	10	**16,00**
616350	1.0 x 5.5	100	200	5	68	4B	10	**15,91**
616351	1.0 x 5.5	125	225	5	70	4B	10	**15,91**
616352	1.0 x 5.5	150	250	5	74	4B	10	**16,20**
616353	1.2 x 6.5	100	200	6	93	4B	10	**18,39**
616354	1.2 x 6.5	125	225	6	98	4B	10	**18,39**
616355	1.2 x 6.5	150	250	6	103	4B	10	**18,83**
616356	1.2 x 8.0	175	285	7	143	4B	5	**24,13**
616357	1.6 x 8.0	175	285	7	143	4B	5	**24,13**
616358	1.6 x 10.0	200	320	8	173	4B	5	**31,57**
616359	2.0 x 12.0	250	370	9	223	4B	5	**46,46**

605NI

Surubelnita lata, maner polipropilena, nichelata

- *lama: otel crom vanadium molibden tratata integral*
- *lama nichelata*
- *maner: forma ergonomica*
- *maner-polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





UNIOR

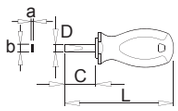
	a x b	C	L	D				
616419	0.4 x 2.0	60	150	2	33	4B	10	**6,71**
616420	0.4 x 2.5	75	160	2.5	34	4B	10	**6,76**
616421	0.5 x 3.0	80	165	3	35	4B	10	**7,20**
616422	0.6 x 3.5	100	185	3.5	39	4B	10	**8,85**
616423	0.8 x 4.0	100	185	4	41	4B	10	**10,26**
616424	1.0 x 5.5	125	225	5	70	4B	10	**12,60**
616425	1.2 x 6.5	150	250	6	103	4B	10	**14,89**
616426	1.2 x 8.0	175	285	8	143	4B	5	**19,07**
616427	1.6 x 10.0	200	320	10	173	4B	5	**26,85**

627TBI

Surubelnita lata, varianta Stubby maner trimaterial TBI, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





UNIOR

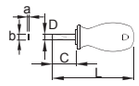
	a x b	C	L	D				
612832	0.6 x 3.5	25	87	3.5	33	4B	10	**16,73**
612833	0.8 x 4.0	25	87	4	41	4B	10	**17,22**
612834	1.0 x 5.5	25	87	5.5	40	4B	10	**17,37**
612835	1.2 x 6.5	25	87	6.5	34	4B	10	**17,46**
617092	1.2 x 6.5	35	97	6.5	36	4B	10	**17,56**

627CR

Surubelnita lata, varianta Stubby maner polipropilena, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





UNIOR

	a x b	C	L	D				
616399	0.8 x 4.0	25	85	4	37	4B	10	**11,29**
616400	1.0 x 5.5	25	85	5.5	41	4B	10	**12,16**
616401	1.2 x 6.5	25	85	6.5	43	4B	10	**12,50**

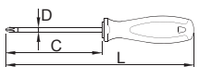


615TBI

Surubelnita profil Phillips (PH) maner trimaterial TBI, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





UNIOR

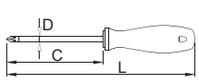
	+	C	L	D				
611701	PH 0	60	145	3	34	4B	10	**14,69**
611702	PH 1	80	180	4.5	60	4B	10	**20,82**
611703	PH 1	200	300	4.5	74	4B	10	**25,54**
611704	PH 2	100	210	6	94	4B	10	**27,63**
611705	PH 2	150	260	6	104	4B	10	**28,90**
611706	PH 2	200	310	6	114	4B	5	**34,73**
611707	PH 3	150	270	8	154	4B	5	**35,95**
611708	PH 4	200	320	10	230	4B	5	**50,06**

615CR

Surubelnita profil Phillips (PH) maner polipropilena, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





UNIOR

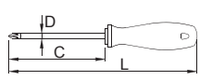
	+	C	L	D				
616363	PH 0	60	145	3	34	4B	10	**10,22**
616364	PH 1	80	165	4.5	60	4B	10	**12,50**
616365	PH 1	200	285	4.5	74	4B	10	**15,57**
616366	PH 2	100	200	6	94	4B	10	**17,03**
616367	PH 2	150	250	6	104	4B	10	**18,39**
616368	PH 3	150	260	8	154	4B	5	**25,15**
616369	PH 4	200	320	10	230	4B	5	**41,15**

615NI

Surubelnita profil Phillips (PH) maner polipropilena, nichelata

- *lama: otel crom vanadium molibden tratata integral*
- *lama nichelata*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





UNIOR

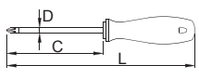
	+	C	L	D				
616428	PH 0	60	145	3	34	4B	10	**8,80**
616429	PH 1	80	165	4.5	60	4B	10	**10,80**
616430	PH 2	100	200	6	94	4B	10	**14,69**
616431	PH 3	150	260	8	154	4B	5	**22,23**

612CR

Surubelnita profil Phillips (PH) pentru electricieni, maner polipropilena, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*





UNIOR

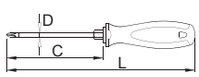
	+	C	L	D				
616360	PH 1	280	365	4.5	67	4B	5	**20,82**
616361	PH 2	200	300	6	98	4B	10	**26,07**
616362	PH 2	280	380	6	113	4B	5	**29,67**

616TBI

Surubelnita profil Phillips (PH), mecanica cu hexagon maner trimaterial TBI, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





UNIOR

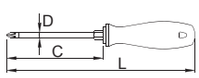
	+	C	L	D	⬢				
611709	PH 1	80	180	4.5	8	60	4B	10	**25,05**
611710	PH 2	100	210	6	10	94	4B	10	**31,38**
611711	PH 3	150	270	8	13	154	4B	5	**44,32**

616CR

Surubelnita profil Phillips (PH), mecanica cu hexagon maner polipropilena, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





UNIOR

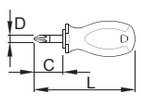
	+	C	L	D	⬢				
616370	PH 1	80	180	4.5	8	60	4B	10	**17,46**
616371	PH 2	100	210	6	10	94	4B	10	**22,57**
616372	PH 3	150	270	8	13	154	4B	5	**34,83**

626TBI

Surubelnita profil Phillips (PH) varianta Stubby, maner trimaterial TBI, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





UNIOR

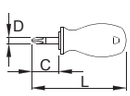
	+	C	L	D				
612830	PH 1	25	87	4.5	37	4B	10	**16,73**
612831	PH 2	25	87	6	41	4B	10	**17,37**
617088	PH 2	35	97	6	43	4B	10	**17,37**

626CR

Surubelnita profil Phillips (PH) varianta Stubby, maner polipropilena, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





UNIOR

	+	C	L	D				
616397	PH 1	25	85	4.5	37	4B	10	**11,63**
616398	PH 2	25	85	6	41	4B	10	**12,31**

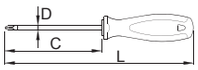


625TBI

Surubelnita profil Pozidrive (PZ) maner trimaterial TBI, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





UNIOR

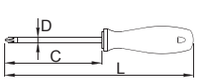
	+	C	L	D				
611741	PZ 0	60	145	3	34	4B	10	**14,59**
611742	PZ 1	80	180	4.5	60	4B	10	**20,14**
611743	PZ 2	100	210	6	93	4B	10	**25,54**
611744	PZ 3	150	270	8	156	4B	5	**32,98**

625CR

Surubelnita profil Pozidrive (PZ) maner polipropilena, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





UNIOR

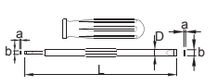
	+	C	L	D				
616393	PZ 0	60	145	3	34	4B	10	**10,80**
616394	PZ 1	80	165	4.5	60	4B	10	**12,16**
616395	PZ 2	100	200	6	93	4B	10	**16,69**
616396	PZ 3	150	260	8	156	4B	5	**24,76**

636

Surubelnita reversibila maner polipropilena, nichelata

- *lama: otel crom vanadium molibden tratata integral*
- *lama nichelata*
- *maner: forma ergonomica*
- *maner: polipropilena*





UNIOR

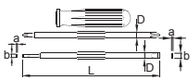
	a x b	+	L	D				
608922	1.0 x 6.0	PH 2	140	6	53	1E	10	**14,54**

636A

Surubelnita reversibila maner polipropilena, nichelata

- *cu doua lame PH2-PH3 si 0.8 x 4.0 -1.2 x 7.0*





UNIOR

	+	+	a x b	a x b	L	D				
615049	PH 2	PH 3	0.8 x 4.0	1.2 x 7.0	180	7	127	1E	10	**22,18**

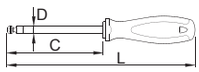


620TBI

Surubelnita profil hexagon cu cap sferic, maner trimaterial TBI, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*





UNIOR

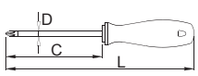
	⬢	C	L	D				
611715	2	65	150	3	34	4B	10	**19,12**
611716	2.5	75	160	3	34	4B	10	**19,12**
611717	3	75	160	3.5	37	4B	10	**21,16**
611718	4	100	200	5	68	4B	10	**28,17**
611719	5	100	210	6	93	4B	10	**33,13**
611720	6	125	245	7	128	4B	10	**37,41**
611721	8	150	270	10	203	4B	5	**44,32**

625NI

Surubelnita profil Pozidrive (PZ) maner polipropilena, nichelata

- *lama: otel crom vanadium molibden tratata integral*
- *lama nichelata*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





UNIOR

	+	C	L	D				
616433	PZ 1	80	165	4.5	60	4B	10	**10,31**
616434	PZ 2	100	200	6	93	4B	10	**14,25**

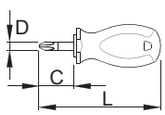


628TBI

Surubelnita profil Pozidrive (PZ) varianta Stubby, maner trimaterial TBI, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





UNIOR

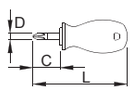
	+	C	L	D				
612837	PZ 1	25	87	4.5	37	4B	10	**17,22**
612838	PZ 2	25	87	6	41	4B	10	**17,66**
617095	PZ 2	35	97	6	43	4B	10	**18,00**

628CR

Surubelnita profil Pozidrive (PZ) varianta Stubby, maner polipropilena, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





UNIOR

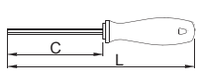
	+	C	L	D				
616402	PZ 1	25	85	4.5	37	4B	10	**11,63**
616403	PZ 2	25	85	6	41	4B	10	**12,31**

620/1CR

Surubelnita profil hexagon maner polipropilena, brunata

- *lama: otel crom vanadium molibden tratata integral*
- *lama brunata*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*





UNIOR

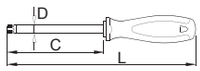
	⬢	C	L				
617128	2	60	145	34	4B	10	**11,92**
617129	2.5	60	145	34	4B	10	**12,89**
617130	3	75	160	37	4B	10	**14,06**
617133	6	95	205	128	4B	10	**17,95**

621TBI

Surubelnita profil TORX® (TX) maner trimaterial TBI, cromata

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*





UNIOR

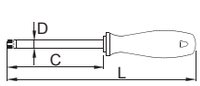
		C	L	D				
611722	TX 6	60	145	3	34	4B	10	**16,73**
611723	TX 7	60	145	3	34	4B	10	**16,73**
611724	TX 8	60	145	3	34	4B	10	**16,73**
611725	TX 9	60	145	3	34	4B	10	**16,73**
611726	TX 10	80	165	3	35	4B	10	**16,73**
611727	TX 15	80	165	3	37	4B	10	**18,39**
611728	TX 20	100	185	4	43	4B	10	**19,36**
611729	TX 25	100	200	4.5	63	4B	10	**23,69**
611730	TX 27	115	215	5.5	76	4B	10	**25,88**
611731	TX 30	115	225	6	98	4B	10	**30,40**
611732	TX 40	130	250	7	130	4B	10	**37,07**
611733	TX 45	130	250	8	148	4B	10	**39,06**

621CR

Surubelnita profil TORX® (TX) maner polipropilena, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*





UNIOR

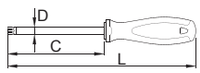
		C	L	D				
616379	TX 6	60	145	3	34	4B	10	**12,50**
616380	TX 7	80	165	3	34	4B	10	**12,50**
616381	TX 8	80	165	3	34	4B	10	**12,50**
616382	TX 9	80	165	3	34	4B	10	**12,50**
616383	TX 10	80	165	3	35	4B	10	**12,50**
616384	TX 15	80	165	3.5	37	4B	10	**12,99**
616385	TX 20	100	185	4	43	4B	10	**14,16**
616386	TX 25	100	185	4.5	63	4B	10	**15,23**
616387	TX 27	115	215	5.5	76	4B	10	**18,39**
616388	TX 30	115	215	6	98	4B	10	**19,99**
616389	TX 40	130	240	7	130	4B	10	**26,46**

621/1TBI

Surubelnita profil TORX® (TX) pentru suruburi cu pin maner trimaterial TBI, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*





UNIOR

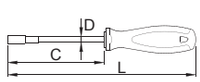
		C	L	D				
611734	TR 10	80	165	3	35	4B	10	**39,40**
611735	TR 15	80	165	3.5	37	4B	10	**40,91**
611736	TR 20	100	185	4	43	4B	10	**41,69**
611737	TR 25	100	200	4.5	63	4B	10	**49,67**
611738	TR 27	115	215	5.5	76	4B	10	**62,46**
611739	TR 30	115	225	6	98	4B	10	**66,45**
611740	TR 40	130	250	7	130	4B	10	**77,01**

629TBI

Surubelnita profil hexagon interior 6 laturi maner trimaterial TBI, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *conform cu standardul DIN 3125*





UNIOR

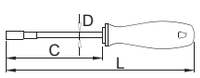
		C	L	D				
611746	5	125	235	5	92	4B	10	**41,74**
612672	5.5	125	235	6	103	4B	10	**41,74**
611747	6	125	235	6	103	4B	10	**41,74**
611748	7	125	245	6	123	4B	5	**46,94**
611749	8	125	245	7	140	4B	5	**47,38**
611750	9	125	245	8	155	4B	5	**47,92**
611751	10	125	245	8	157	4B	5	**49,08**
611752	11	125	245	8	166	4B	5	**54,09**
611753	12	125	245	9	184	4B	5	**58,91**
611754	13	125	245	9	186	4B	5	**60,95**

629CR

Surubelnita profil hexagon interior 6 laturi maner polipropilena, cromata

- *lama: otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *conform cu standardul DIN 3125*





UNIOR

		C	L	D				
616406	5	125	225	5	92	4B	10	**33,13**
616407	5.5	125	225	6	103	4B	10	**33,13**
616408	6	125	225	6	103	4B	10	**33,13**
616409	7	125	235	6	123	4B	10	**36,73**
616410	8	125	235	7	140	4B	10	**37,21**
616411	10	125	235	8	157	4B	10	**39,06**
616413	12	125	245	9	184	4B	10	**46,46**
616414	13	125	245	9	186	4B	10	**48,94**
616415	14	125	245	9	193	4B	10	**58,91**
616418	17	125	245	9	210	4B	10	**68,25**

629CS5TBI

Set surubelnite profil hexagon interior 6 laturi maner trimaterial TBI, cromate



UNIOR

612318	6 - 13 / 5	881	1G	1	**258,11**

629TBI (6, 8, 10, 12, 13)

600CS5TBI

Set surubelnit mecanice cu hexagon maner trimaterial TBI, cromate



614007	5	475	1G	1	136,69

605TBI (0.8 x 4.0 x 100),
600TBI (1.0x5.5x100, 1.2x6.5x125),
616TBI (PH 1 x 80, PH 2 x 100)

606CS5TBI

Set surubelnite late, maner trimaterial TBI, cromate



616320	5	500	1G	1	121,17

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

606B5NI

Set surubelnite late, maner polipropilena, nichelate



617033	5	380	1G	1	51,66

605NI (0.4 x 2.0 x 60, 0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150)

606CS5CR

Set surubelnite combinate, maner polipropilena, cromate



617017	5	475	1G	1	82,16

605CR (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

607B5CR

Set surubelnite combinate, maner polipropilena, cromate



617021	5	400	1G	1	70,05

605CR (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.2 x 6.5 x 150),
615CR (PH1 x 80, PH 2 x 100)

607B5NI

Set surubelnite combinate, maner polipropilena, nichelate



617037	5	400	1G	1	57,84

605NI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.2 x 6.5 x 150), **615NI** (PH 1 x 80, PH 2 x 100)

607CS5TBI

Set surubelnite combinate, maner trimaterial TBI, cromate



611985	5	470	1G	1	119,52

605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **615TBI** (PH 1 x 80, PH 2 x 100)

607CS7TBI

Set surubelnite combinate, maner trimaterial TBI, cromate



611986	7	650	1G		169,67

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
615TBI (PH 1 x 80, PH 2 x 100)

608CS5CR

Set surubelnite profil Phillips (PH), maner polipropilena, cromate



617028	5	630	1G	1	106,05

615CR (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)

608CS5NI

Set surubelnite combinate, maner polipropilena, nichelate



617041	5	485	1G	1	70,78

615NI (PH 0x60, PH 1 x 80, PH 2 x 100, PH 3 x 150),
625NI (PZ 2 x 100)

608CS5TBI

Set surubelnite combinate, maner trimaterial TBI, cromate



612326	5	546	1G	1	124,68

615TBI (PH0x60, PH1 x 80, PH2 x 100, PH3 x 150), **625TBI** (PZ2 x 100)

607CS7CR

Set surubelnite combinate, maner polipropilena, cromate



617026	7	700	1G	1	126,23

605CR (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175),
615CR (PH1x80, PH2x100, PH3x150)

607PB8TBI

Set surubelnite combinate, maner trimaterial TBI, cromate

- *dimensiunea cutiei : 307 x 260 x 55 mm*



UNIOR

621445	8	1060	1F	1	**304,47**

602TBI (0.5 x 3.0 x 100), **605TBI** (0.8 x 4.0 x 100, 1.0x5.5x125, 1.2x6.5x150), 615TBI (PH 1 x 80, PH2x100), **625TBI** (PZ 1 x 80, PZ 2 x 100), **981PBS2** (307 x 260 x 55)

607PB9TBI

Set surubelnite combinate, maner trimaterial TBI, cromate

- *dimensiunea cutiei : 307 x 260 x 55 mm*



UNIOR

621419	9	1030	1G	1	**338,08**

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **615TBI** (PH 1 x 80, PH 2 x 100), 625TBI (PZ 0 x 60, PZ 1 x 80, PZ 2 x 100), **981PBS2** (307 x 260 x 55)

607SN1

Set surubelnite combinate, maner trimaterial TBI, cromate in stand metalic



UNIOR

623914	84	1K	1	**2229,40**

605TBI (8x(0.4x2.5x75), 8x(0.5x3.0x80), 8x(0.8x4.0x100), 6x(1.0 x 5.5x125), 6x(1.2x6.5x150), 4x(1.2x8.0x175)), **615TBI** (8x(PH0x60), 6x(PH1x80), 6x(PH2x100)), **625TBI** (6x(PZ1x80), 6x(PZ2x100)), **626TBI** (6x(PH2x25)), **627TBI** (6x(0.8x4.0x25))

607SN2

Set surubelnite combinate, maner trimaterial TBI, cromate si surubelnite izolate la 1000 V in stand metalic



UNIOR

623915	162	1K	1	**4443,33**

605TBI (8x(0.4x2.5x60), 8x(0.4x2.5x75), 8x(0.5x3.0x80), 8x(0.6x 3.5x100), 8x(0.8x4.0x100), 8x(0.8x4.0x125), 6x(1.0x5.5x100), 6x(1.0x5.5x125), 6x(1.2x6.5x150), 4x(1.2x8.0x175)), **615TBI** (8x(PH0x60), 6x(PH1x80), 6x(PH2x100), 4x(PH3x150)), **625TBI** (8x(PZ0x60), 6x(PZ1x80), 6x(PZ2x100)), **613VDETBI** (8x(PH0x60), 6x(PH1x80), 6x(PH2x100)), **603VDETBI** (8x(0.5x3.0x100), 8x(0.8x4.0x100), 6x(1.0x5.5x125), 6x(1.2x6.5x150))

607S50TBI

Set surubelnite combinate, maner trimaterial TBI, cromate in stand plastic



UNIOR

612000	50	5535	1F	1	**1482,12**

605TBI (5x(0.5x3.0x80), 5x(0.8x4.0x100), 5x(1.0x5.5x125), 5x(1.2x6.5x150), 5x(1.2x8.0x175)), **615TBI** (5x(PH0x60), 5x(PH1x80), 5x(PH2x100)), **625TBI** (5x(PZ1x80), 5x(PZ2x100)), **978BICR** (330x205x206)

607MD1

Set surubelnite combinate, maner trimaterial TBI, cromate in stand metalic pentru expozitor



UNIOR

623916	86	1K	1	**2119,66**

605TBI (8x(0.4x2.5x60), 8x(0.4x2.5x75), 8x(0.5x3.0x100), 8x(0.6x3.5x100), 8x(0.8x4.0x100), 8x(0.8x4.0x150), 6x(1.0x5.5x125), 6x(1.0x5.5x150), 6x(1.2x6.5x150), 4x(1.2 x 8.0x175), 4x(1.6x10.0x200)), **627TBI** (6x(0.8x4.0x25), 6x(1.2x6.5x25)), **995.0MD1** (480x215x63), **995.2MD1** (475x45)



607MD2

Set surubelnite combinate, maner trimaterial TBI, cromate in stand metalic pentru expozitor



623917	78	1K	1	1995,03

615TBI (8x(PH0x60), 6x(PH1x80), 6x(PH2x100), 6x(PH2x150), 4x(PH3x150)), **625TBI** (8x(PZ0x60), 6x(PZ1x80), 6x(PZ2x100), 4x(PZ3x150)), **626TBI** (6x(PH1x25), 6x(PH2x25)), **628TBI** (6x(PZ1x25), 6x(PZ2x25)), **995.0MD1** (480x215x63), **995.2MD1** (475x45)

607MD4

Set surubelnite TORX®, maner trimaterial TBI, cromate in stand metalic pentru expozitor



623919	TX 6 - TX 45 / 82	1K	1	2086,68

621TBI (8x(TX6), 8x(TX7), 8x(TX8), 8x(TX9), 8x(TX10), 8x(TX15), 8x(TX20), 6x(TX25), 6x(TX27), 6x(TX30), 4x(TX40), 4x(TX45), **995.0MD1** (480x215x63), **995.2MD1** (475x45)

607MD5

Set surubelnite cap tubular, maner trimaterial TBI, cromate in stand metalic pentru expozitor



623920	5 - 13 / 46	1K	1	2540,63

629TBI (6x(5), 6x(5.5), 6x(6), 4x(7), 4x(8), 4x(9), 4x(10), 4x(11), 4x(12), 4x(13)), **995.0MD1** (480x215x63), **995.2MD1** (475x45)

609CS5TBI

Set surubelnite combinate, maner trimaterial TBI, cromate



611987	5	475	1G	1	116,75

605TBI (0.8x4.0x100, 1.0x5.5x 125, 1.2x6.5x150), **625TBI** (PZ1x80, PZ2x100)

609CS7CR

Set surubelnite combinate, maner polipropilena, cromate



617030	7	681	1G	1	125,16

605CR (0.8x4.0x100, 1.0x5.5x125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), **625CR** (PZ 1 x 80, PZ 2 x 100, PZ 3 x 150)

621CS7TBI

Set surubelnite TORX®, maner trimaterial TBI, cromate



612300	TX 10-TX 40 / 7	580	1G	1	171,52

621TBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)

621CS7CR

Set surubelnite TORX®, maner polipropilena, cromate



617031	TX 10 - TX 40 / 7	535	1G	1	119,67

621CR (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)

621/1CS7TBI

Set surubelnite TORX®, pentru suruburi cu pin maner trimaterial TBI, cromate



612308	TR 10 - TR 40 / 7	595	1G	1	377,58

621/1TBI (TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40)

629CS7CR

Set surubelnite cap tubular, maner polipropilena, cromate



617032	6 - 17 / 7	1240	1G	1	331,95

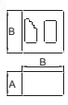
629CR (6, 8, 10, 12, 13, 14, 17)

633

Magnetizator / demagnetizator

- *material:ABS*
- *culoare albastra*





612866	52	30	91	1E	10	57,55





BITI SI ACCESORII

STANDARD
versiune frezata pentru aplicatii Hexagon si Torx Tamper (suruburi de siguranta)

TORSION (frezat)
versiune frezata pentru aplicatii soft (de exemplu lemn moale), cuplu bun, aproximativ 90% peste standardul DIN, fara acoperire

TORSION (forjat)
versiune forjata pentru aplicatti grele (de ex. metal, lemn de esenta tare) cuplu bun, aproximativ 110% peste standardul DIN, fara acoperire

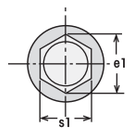
DIAMOND Titan TiN IMPACT
versiune forjata pentru toate masinile Impact / Impuls / Percutie; material special; tratament termic special; acoperire cu titan pentru o duritate ridicata a suprafetei 92 pana la 95 HRc; cuplu cu aproximativ 130% peste standardul DIN

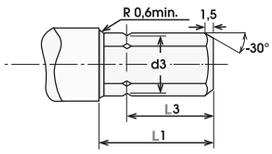
Titan TIN
versiune frezata pentru aplicatii soft (de exemplu, lemn moale); acoperire cu titan pentru o duritate ridicata a suprafetei 92 pana la 95 HRc si rezistenta la uzura; cuplu cu aproximativ 115% peste standardul DIN

IMPACT TORSION
versiune forjata pentru toate masinile Impact / Impuls / Percutie; fara acoperire; material special; tratament termic special; cuplu cu aproximativ 130% peste standardul DIN

Prindere

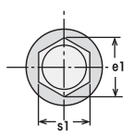
C6,3

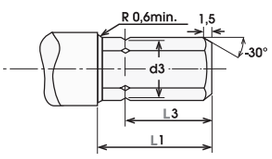




s1 max.	s1 min.		d3	e1 max.	e1 min.	L1	L3			r min.	Inch
6,350	6,292		6,7	7,18	7,11	11,0	8,2			0,3	1/4"

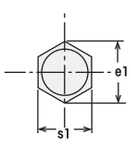
C8

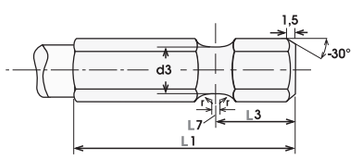




s1 max.	s1 min.		d3	e1 max.	e1 min.	L1	L3			r min.	Inch
7,930	7,872		8,2	8,96	8,90	13,5	10,2			0,3	5/16"

E6,3





s1 max.	s1 min.		d3	e1 max.	e1 min.	L1	L3		L7	r min.	Inch
6,350	6,292		4,7	7,18	7,11	25,0	9,5		1,0	2,4	1/4"

Profile

- Assy® / AW
- Exterior triunghi
- Exterior hexagon
- Clutch
- Interior hexagon
- Portbit interior heaxagon
- Tubular
- Interior patrat
- Interior hexagon cu pin
- Phillips®
- Pozidriv®
- Ribe®
- Lat
- Spanner
- TorqSet®
- Torx®
- Torx® Plus®
- Torx® Plus® Sicherheit
- Torx® Tamper
- Torx® T-Rip
- Torx® TTAP®
- TriWing®
- Vierkant / Robertson
- XZN Vielzahn

ACR® - Phillips® Screw Company
ASSY® - Adolf Würth GmbH & Co. KG
BITQUICK® - cobit® GmbH
COBIT® - cobit® GmbH
PHILLIPS® - Phillips® Screw Company
POZIDRIV® - Phillips® Screw Company
RIBE® - Richard Bergner Verbindungstechnik GmbH & Co. KG
SIT® - Adolf Würth GmbH & Co. KG
TORSONIC® - cobit® GmbH
TORQ-SET® - Phillips® Screw Company
TORX® - Acument Intellectual Properties, LLC, Troy Mich., US
TORX® - PLUS® Acument Intellectual Properties, LLC, Troy Mich., US
TRI-WING® - Phillips® Screw Company
TTAP® - TTAP® DRIVE AS



Biti cu profil Phillps 268
Biti cu profil Pozidrive 272
Biti cu profil lat 275
Biti cu profil TORX® 277
Biti cu profil hexagon exterior 282
Biti cu profil patrat / Robertson 283
Biti cu profil Spanner 283
Biti cu profil RIBE® 283
Biti cu profil Clutch 283
Biti cu profil XZN 284
Biti cu profil Torq-Set® 284
Biti cu profil Tri-Wing® 284
Biti cu profil Torx® TTAP® 284
Biti cu profil TORX® Plus® 284
Biti cu profil ASSY® 284
Biti special pentru gips-carton 284
Biti cu prindere pe filet 285
Biti cu prindere hexagon 10 mm 285
Biti tubulari 286
Prelungitoare 287
Adaptoare 288
Truse de biti 290

6463C6,3

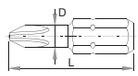
Set 3 biti hexagonali 1/4" DIN 3129 Forma C 6,3 profil Phillips

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*
- *standard: DIN 3129 ISO 1174*



DIN 3129

UNIOR



	Dimensiune	D	L	Ambalare	
602388	PH 0	3	25	3 (A*)	17,51
602389	PH 1	4,5	25	3 (A*)	17,51
602390	PH 2	6	25	3 (A*)	17,51
602391	PH 3	8	25	3 (A*)	17,51

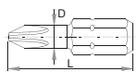
6464C6,3

Set 3 biti hexagonali 1/4" DIN/ISO 1173 Forma C 6,3 profil Phillips

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*



UNIOR



	Dimensiune	L	D	Ambalare	
602392	PH 3	32	8,0	3	32,35
602393	PH 4	32	10,0	3	35,02

INDUSTRY PH

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil Phillips

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*

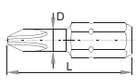


DIN 5260

USH GERMANY







	Dimensiune	L	Ambalare	
UUSG0012040	PH 0	25	10 (A*)	30,67
UUSG0012341[1]	PH 1	25	10 (A*)	30,67
UUSG0012342[1]	PH 2	25	10 (A*)	30,67
UUSG0012343[1]	PH 3	25	10 (A*)	30,67
UUSG0012045	PH 4	25	10 (A*)	47,46

([1]) *profil de torsiune*

6463C6,3

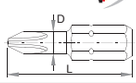
Bit hexagonal 1/4" DIN 3126 Forma C 6,3 profil Phillips

- *material: aliaj special S2 (1.2381 / 73 Mo V 5 2)*
- *duritate material: 58 +/- 2 HRc*
- *in conformitate cu standardele DIN 3126 ISO 1173*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*



DIN 3126

KRONUS



	Dimensiune	D	L	Ambalare	
70112201	PH 1	4.5	25	-	1,41
70112401	PH 2	6.0	25	-	1,41
70112601	PH 3	6.0	25	-	1,41
900516	PH 1	4.5	25	3	5,29
900517	PH 2	6.0	25	3	5,29
900518	PH 3	6.0	25	3	5,29
70112205	PH 1	4.5	25	5	9,68
70112405	PH 2	6.0	25	5	9,68
70112605	PH 3	6.0	25	5	9,68
70112210	PH 1	4.5	25	10	19,38
70112410	PH 2	6.0	25	10	19,38
70112610	PH 3	6.0	25	10	19,38
70112225	PH 1	4.5	25	25	48,45
70112425	PH 2	6.0	25	25	48,45
70112625	PH 3	6.0	25	25	48,45

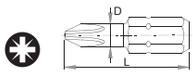
1300 CR

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - profil Pozidriv

- *DIN 5260, ISO 8764*
- *cu inel indentificare*



ASW



	Dimensiune	L	D	Ambalare	
013071	PZ 1	25	4,6	-	2,77
013072	PZ 2	25	6,0	-	2,77
013073	PZ 3	25	6,0	-	2,77

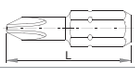
Bit TORSION 1/4" DIN/ISO 1173 Forma C 6,3 - profil Phillips

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 90% peste standardul DIN*
- *fara acoperire*
- *DIN 5264-C, ISO 2380*



cobit tool technology





	Dimensiune	L	Ambalare	
01924	PH 1	25	-	2,48
01925	PH 2	25	-	2,48
01926	PH 3	25	-	2,48
01118	PH 1	25	10 (PP*)	29,56
01119	PH 2	25	10 (PP*)	29,56
01120	PH 3	25	10 (PP*)	29,56

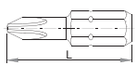
Bit TORSION 1/4" DIN/ISO 1173 Forma C 6,3 - profil Phillips

- *TORSION - versiune forjata pentru a se potrivi perfect la aplicatii grele (ex. lemn dur, metal)*
- *cuplu foarte bun, de aproximativ 110% peste standardul DIN*
- *fara acoperire*
- *DIN 5264-C, ISO 2380*



cobit tool technology





	Dimensiune	L	Ambalare	Pret
60083	PH 1	25	-	2,48
60084	PH 2	25	-	2,48
60085	PH 3	25	-	2,48
02531	PH 1	25	10 (PP*)	29,93
02532	PH 2	25	10 (PP*)	29,93
02533	PH 3	25	10 (PP*)	29,93

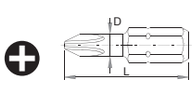
1200 Z

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - profil Phillips

- *DIN 5260, ISO 8764*
- *standard*



ASW



	Dimensiune	L	D	Ambalare	
012002	PH 1	25	4,6	-	1,70
012005	PH 2	25	6,0	-	1,23
012011	PH 3	25	6,0	-	1,70

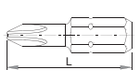
Bit IMPACT TORSION 1/4" DIN/ISO 1173 - Forma C 6,3 profil Phillips

- *IMPACT TORSION – versiune forjata pentru toate masinile de insurubat cu impact, impuls sau percutie*
- *fara acoperire*
- *material special*
- *tratament special*
- *cuplu maxim cu aproximativ 130% peste norma DIN*



cobit tool technology



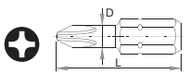


	Dimensiune	L	Ambalare	
10100	PH 1	30	-	3,61
10101	PH 2	30	-	3,61
10102	PH 3	30	-	3,61
02500	PH 1	30	10 (SYS**)	42,12
02501	PH 2	30	10 (SYS**)	42,12
02502	PH 3	30	10 (SYS**)	42,12

Bit hexagonal 1/4" DIN/ISO 1173 Forma E 6,3 - profil Phillips

• bitul dispune o zona de torsiune studiata si alungita pentru a rezista la cupluri ridicate si socuri violente in timpul utilizarii pe o masina de insurubat cu impact
• duritate proiectata special pentru utilizarea pe masini de insurubat cu impact de mare putere
• varf ranforsat cu inel de sprijin pentru o durata de utilizare prelungita
• zona de torsiune este ranforsata din partea superioara si cea inferioara pentru o legatura mai puternica intre varf si corp si pentru a preveni ruperea bitului.





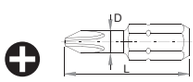
	Dimensiune	L	Ambalare	
UUSE0062442	PH 2	30	5	**38,52**
UUSE0062443	PH 3	30	5	**38,52**
UUSG0062442	PH 2	30	10	**76,28**
UUSL0062442	PH 2	30	25	**153,94**

1200 IMP

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - profil Phillips

• DIN 5260, ISO 8764
• IMPACT





	Dimensiune	L	D	Ambalare	
012062	PH 2	25	6,0	-	**5,39**
012063	PH 3	25	6,0	-	**5,39**

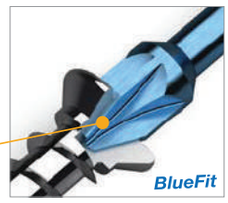
Zona anti-soc *Shock Absorber*

Bitul dispune o zona de torsiune studiata si alungita pentru a rezista la cupluri ridicate si socuri violente in timpul utilizarii pe o masina de insurubat cu impact.
Duritate proiectata special pentru utilizarea pe masini de insurubat cu impact de mare putere.



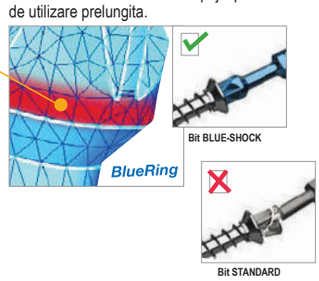
Precizie *BlueFit*

Profile PH, PZ, TX adaptate perfect la capetele suruburilor pentru a evita alunecarile.



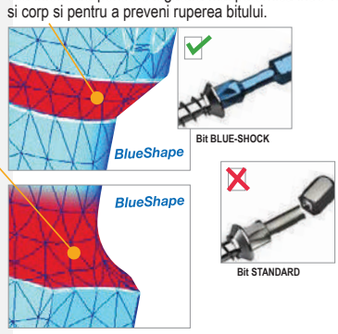
Ranforsare *BlueRing*

Varf ranforsat cu unui inel de sprijin pentru o durata de utilizare prelungita.



Anti-Rupere *BlueShape*

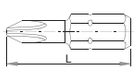
Zona de torsiune este ranforsata din partea superioara si cea inferioara pentru o legatura mai puternica intre varf si corp si pentru a preveni ruperea bitului.



Bit TiN CVD 1/4" DIN/ISO 1173 Forma C 6,3 - profil Phillips

• Titan TiN - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)
• acoperire Titan CVD pentru rezistenta mare la uzura
• duritatea suprafetei aproximativ 92-95 HRc
• cuplu maxim cu aproximativ 115% peste norma DIN
• DIN 5264-C, ISO 2380





	Dimensiune	L	Ambalare	
03000	PH 1	25	-	**5,02**
03001	PH 2	25	-	**5,02**
03002	PH 3	25	-	**5,02**
02615	PH 1	25	10 (PP*)	**54,91**
02616	PH 2	25	10 (PP*)	**54,91**
02617	PH 3	25	10 (PP*)	**54,91**

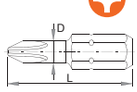
ISOTIN® PH

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil Phillips

• strat dublu de titanizare
• duritatea suprafetei 3000 Vickers
• duritatea optimizata a miezului si strat mai gros de titanizare asigura o durata de viata mai lunga decat cea a unui bit TiN standard
• protectie optima impotriva coroziunii
• potrivit pentru toate aplicatiile delicate in materiale dure si moi
• designul de torsiune combinat cu stratul ISOTIN® creste rezistenta pentru un cuplu de strangere



DIN 5260



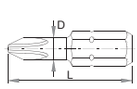
	Dimensiune	L	Ambalare	
UUSG0022341	PH 1	25	10 (A*)	**72,67**
UUSG0022342	PH 2	25	10 (A*)	**72,67**
UUSG0022344	PH 3	25	10 (A*)	**72,67**

6463TINC6,3

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - profil Phillips

• otel special aliat
• durabilitate ridicata
• protectie anticoroziva
• pentru lucrul manual si cu masina
• pentru prindere magnetica sau nonmagnetica
• titanizate
• in concordanta cu standardul ISO 2351





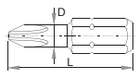
	Dimensiune	L	D	Ambalare	
604691	PH 1	25	4,6	3	**38,58**
604692	PH 2	25	6,0	3	**38,58**
604603	PH 3	25	8,0	3	**38,58**

1200 DC

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - profil Phillips

- *DIN 5260, ISO 8764*
- *diamantat*





	Dimensiune	L	D	Ambalare	
012031	PH 1	25	4,6	-	13,10
012032	PH 2	25	6,0	-	13,10
012033	PH 3	25	6,0	-	13,10

Bit DIAMOND TiN IMPACT 1/4" DIN/ISO 1173 - Forma C 6,3 - profil Phillips

- *DIAMANT Titan TiN CVD IMPACT TORSION – versiune forjata pentru toate masinile de insurubat cu impact, impuls sau percutie*
- *material special*
- *tratament special*
- *particulele de diamant reduc forta de respingere a surubului*
- *duritatea suprafetei aproximativ 92-95 HRc*
- *cuplu maxim cu aproximativ 130% peste norma DIN*
- *DIN 5264-C, ISO 2380*





	Dimensiune	L	Ambalare	
60163	PH 1	25	-	16,56
60164	PH 2	25	-	16,56
60165	PH 3	25	-	16,56
03087	PH 1	25	5 (SYS**)	88,72
03088	PH 2	25	5 (SYS**)	88,72
03089	PH 3	25	5 (SYS**)	88,72

STAINLESS STEEL PH

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil Phillips

- *material: otel inoxidabil*
- *protectie optima impotriva coroziunii*
- *rugina externa pe otelul inoxidabil este rezultatul abraziunii la strangerea suruburilor folosind scule obisnuite din otel; materialul prelucrat cu astfel de instrumente prinde particule de otel care adera la suruburi si este transformat, in prezenta oxigenului, in rugina; folosirea bitilor din otel inoxidabil previne formarea ruginii externe pe suruburile sau suprafetele din otel inoxidabil*



DIN 5260



	Dimensiune	L	Ambalare	
UUSE0062041N	PH 1	25	5 (A*)	61,95
UUSE0062042N	PH 2	25	5 (A*)	61,95
UUSE0062044N	PH 3	25	5 (A*)	61,95

DIATIN® PH

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil Phillips

- *DiaTiN este o combinatie de acoperire TiN cu DLC (Diamond Like Carbon)*
- *strat de titan dublu.*
- *duritatea suprafetei de 3000 Vickers*
- *geometrie de torsiune*
- *protectie optima impotriva coroziunii*
- *acoperirea DLC imbunatateste rezistenta la uzura si prelungeste durata de viata a bitului*



DIN 5260



	Dimensiune	L	Ambalare	
UUSE0032341	PH 1	25	5 (A*)	56,25
UUSE0032342	PH 2	25	5 (A*)	56,25
UUSE0032344	PH 3	25	5 (A*)	56,25

INDUSTRY PH ACR

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil Phillips ACR

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*



DIN 5260



	Dimensiune	L	Ambalare	
UUSE0012841	PH 1	25	5 (A*)	40,77
UUSE0012842	PH 2	25	5 (A*)	40,77
UUSE0012843	PH 3	25	5 (A*)	40,77

6465C6,3

Bit hexagonal 1/4" Forma C 6,3 - profil Phillips

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*





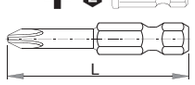
	Dimensiune	L	D	Ambalare	
602394	PH 1	50	4,5	3	29,97
602395	PH 2	50	6,0	3	29,97
602396	PH 3	50	8,0	3	29,97

6503E6,3

Bit hexagonal 1/4" Forma E 6,3 - profil Phillips

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*





	Dimensiune	L	D	Ambalare	
602519	PH 1	50	4,5	3	33,03
602520	PH 2	50	6,0	3	33,03
602521	PH 3	50	8,0	3	33,03

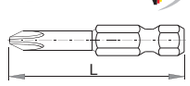
76503E6,3

Bit hexagonal 1/4" Forma E 6,3 - profil Phillips

- *material: aliaj special S2 (1.2381 / 73 Mo V 5 2)*
- *duritate material: 58 +/- 2 HRc*
- *in conformitate cu standardele DIN 3126 ISO 1173*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*



DIN 3126



	Dimensiune	L	D	Ambalare	
70113901	PH 1	50	4.5	-	2,11
70114001	PH 2	50	6.0	-	2,11
70114101	PH 3	50	6.0	-	2,11
900536	PH 1	50	4.5	3	7,40
900537	PH 2	50	6.0	3	7,40
900538	PH 3	50	6.0	3	7,40
70113905	PH 1	50	4.5	5	13,21
70114005	PH 2	50	6.0	5	13,21
70114105	PH 3	50	6.0	5	13,21
70113910	PH 1	50	4.5	10	26,42
70114010	PH 2	50	6.0	10	26,42
70114110	PH 3	50	6.0	10	26,42

INDUSTRY PH L

Bit hexagonal 1/4" DIN 3126 - Forma E 6,3 - profil Phillips lung

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*



DIN 5260



	Dimensiune	L	Ambalare	
UUSE0013621[1]	PH 1	50	5 (A*)	40,64
UUSE0013622[1]	PH 2	50	5 (A*)	40,64
UUSE0013623[1]	PH 3	50	5 (A*)	40,64

([1]) *profil de torsiune*

Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil Phillips

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 95% peste standardul DIN*
- *fara acoperire*
- *DIN 5260, ISO 8764*



	Dimensiune	L	Ambalare	
60391	PH 1	50	-	**4,91**
60392	PH 2	50	-	**4,91**
60393	PH 3	50	-	**4,91**
01139	PH 1	50	10 (PP*)	**53,56**
01140	PH 2	50	10 (PP*)	**53,56**
01141	PH 3	50	10 (PP*)	**53,56**

Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil Phillips

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 80% peste standardul DIN*
- *fara acoperire*
- *DIN 5260, ISO 8764*



	Dimensiune	L	Ambalare	
60394	PH 1	90	-	**13,21**
60395	PH 2	90	-	**13,21**
60396	PH 3	90	-	**13,21**
01153	PH 1	90	5 (PP*)	**70,76**
01156	PH 2	90	5 (PP*)	**70,76**
01159	PH 3	90	5 (PP*)	**70,76**

Bit IMPACT TORSION 1/4" DIN/ISO 1173 - Forma E 6,3 profil Phillips

- *IMPACT TORSION – versiune forjata pentru toate masinile de insurubat cu impact, impuls sau percutie*
- *fara acoperire*
- *material special*
- *tratament special*
- *cuplu maxim cu aproximativ 130% peste norma DIN*



	Dimensiune	L	Ambalare	
10112	PH 1	50	-	**6,53**
10113	PH 2	50	-	**6,53**
10114	PH 3	50	-	**6,53**
02512	PH 1	50	5 (SYS**)	**38,78**
02513	PH 2	50	5 (SYS**)	**38,78**
02514	PH 3	50	5 (SYS**)	**38,78**

Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil Phillips

- *TORSION - versiune forjata pentru a se potrivi perfect la aplicatii grele (ex. lemn dur, metal)*
- *cuplu foarte bun, de aproximativ 100% peste standardul DIN*
- *fara acoperire*
- *DIN 5260, ISO 8764*



	Dimensiune	L	Ambalare	
60096	PH 1	50	-	**4,91**
60097	PH 2	50	-	**4,91**
60098	PH 3	50	-	**4,91**
02540	PH 1	50	10 (PP*)	**53,56**
02541	PH 2	50	10 (PP*)	**53,56**
02542	PH 3	50	10 (PP*)	**53,56**

INDUSTRY PH XL

Bit hexagonal 1/4" DIN 3126 - Forma E 6,3 - profil Phillips lung

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*



DIN 5260

TORSIONFLEX

	Dimensiune	L	Ambalare	
UUSZ0136021	PH 1	90	1 (D*)	**46,60**
UUSZ0136022	PH 2	90	1 (D*)	**46,60**
UUSZ0136023	PH 3	90	1 (D*)	**46,60**

Bit TORSION TiN CVD 1/4" DIN/ISO 1173 - Forma E 6,3 - profil Phillips

- *Titan TiN - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *acoperire Titan CVD pentru rezistenta mare la uzura*
- *duritatea suprafetei aproximativ 92-95 HRc*
- *cuplu maxim cu aproximativ 115% peste norma DIN*
- *DIN 5260, ISO 8764*



	Dimensiune	L	Ambalare	
03010	PH 1	50	-	**11,00**
03011	PH 2	50	-	**11,00**
03012	PH 3	50	-	**11,00**
02627	PH 1	50	5 (PP*)	**59,65**
02628	PH 2	50	5 (PP*)	**59,65**
02629	PH 3	50	5 (PP*)	**59,65**

Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil Phillips

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 80% peste standardul DIN*
- *fara acoperire*
- *DIN 5260, ISO 8764*



	Dimensiune	L	Ambalare	
60421	PH 1	70	-	**12,08**
60422	PH 2	70	-	**12,08**
60423	PH 3	70	-	**12,08**
01152	PH 1	70	5 (PP*)	**65,21**
01155	PH 2	70	5 (PP*)	**65,21**
01158	PH 3	70	5 (PP*)	**65,21**

Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil Phillips

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 80% peste standardul DIN*
- *fara acoperire*
- *DIN 5260, ISO 8764*



	Dimensiune	L	Ambalare	
60403	PH 1	150	-	**18,23**
60404	PH 2	150	-	**18,23**
60405	PH 3	150	-	**18,23**
01154	PH 1	150	5 (PP*)	**95,73**
01157	PH 2	150	5 (PP*)	**95,73**
01160	PH 3	150	5 (PP*)	**95,73**

Bit hexagonal 1/4" BLUE SHOCK Forma E 6,3 - profil Phillips

- *bitul dispune o zona de torsiune studiata si alungita pentru a rezista la cupluri ridicate si socuri violente in timpul utilizarii pe o masina de insurubat cu impact*
- *duritate proiectata special pentru utilizarea pe masini de insurubat cu impact de mare putere*
- *varf ranforsat cu inel de sprijin pentru o durata de utilizare prelungita*
- *zona de torsiune este ranforsata din partea superioara si cea inferioara pentru o legatura mai puternica intre varf si corp si pentru a preveni ruperea bitului.*



	Dimensiune	L	Ambalare	
UUSE0063422	PH 2	50	5	**59,94**
UUSE0063423	PH 3	50	5	**59,94**

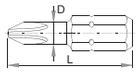
6483C8

Set 3 biti hexagonali 5/16" Forma C 8 - profil Phillips

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*



UNIOR



	Dimensiune	D	L	Ambalare	
602423	PH 2	6	32	3	31,52
602424	PH 3	8	32	3	31,52

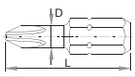
6484C8

Set 3 biti hexagonali 5/16" Forma C 8 - profil Phillips

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*



UNIOR



	Dimensiune	D	L	Ambalare	
602425	PH 4	10,0	38	3	42,95

QUALITY INDUSTRY PH

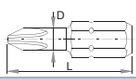
Bit hexagonal 5/16" DIN 3126 - Forma C 8 - profil Phillips

- *duritate in conformitate cu norma DIN*
- *protectie optima impotriva coroziunii*



USH GERMANY

DIN 5260



	Dimensiune	L	Ambalare	
UUSE0012541	PH 1	32	5 (A*)	61,64
UUSE0012542	PH 2	32	5 (A*)	61,64
UUSE0012544	PH 3	32	5 (A*)	61,64
UUSE0012545	PH 4	38	5 (A*)	129,44

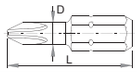
6466C6,3

Set 3 biti hexagonali 1/4" Forma C 6,3 - profil Pozidrive

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*



UNIOR



	Dimensiune	D	L	Ambalare	
602397	PZ 1	4,5	25	3	17,51
602398	PZ 2	6	25	3	17,51
602399	PZ 3	8	25	3	17,51

76466C6,3

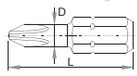
Bit cu profil Pozidrive

- *material: aliaj special S2 (1.2381 / 73 Mo V 5 2)*
- *duritate material: 58 +/- 2 HRc*
- *in conformitate cu standardele DIN 3126 ISO 1173*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*



DIN 3126

KRONUS



	Dimensiune	L	D	Ambalare	
70118101	PZ 1	25	4.5	-	1,41
70118301	PZ 2	25	6.0	-	1,41
70118501	PZ 3	25	6.0	-	1,41
900519	PZ 1	25	4.5	3	5,29
900520	PZ 2	25	6.0	3	5,29
900521	PZ 3	25	6.0	3	5,29
70118105	PZ 1	25	4.5	5	9,68
70118305	PZ 2	25	6.0	5	9,68
70118505	PZ 3	25	6.0	5	9,68
70118110	PZ 1	25	4.5	10	19,38
70118310	PZ 2	25	6.0	10	19,38
70118510	PZ 3	25	6.0	10	19,38
70118125	PZ 1	25	4.5	25	48,45
70118325	PZ 2	25	6.0	25	48,45
70118525	PZ 3	25	6.0	25	48,45

INDUSTRY PZ

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil Pozidriv

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*

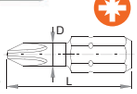


DIN 5260

USH GERMANY

TORSIONFLEX

Long Life



	Dimensiune	L	Ambalare	
UUSG0012053	PZ 0	25	10 (A*)	30,67
UUSG0012360[1]	PZ 1	25	10 (A*)	30,67
UUSG0012361[1]	PZ 2	25	10 (A*)	30,67
UUSG0012362[1]	PZ 3	25	10 (A*)	30,67
UUSG0012063	PZ 4	25	10 (A*)	30,67

([1]) *profil de torsiune*

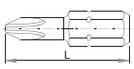
Bit TORSION 1/4" DIN/ISO 1173 Forma C 6,3 - profil Pozidriv

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 90% peste standardul DIN*
- *fara acoperire*
- *DIN 5264-C, ISO 2380*



cobit tool technology





	Dimensiune	L	Ambalare	
01927	PZ 1	25	-	2,48
01928	PZ 2	25	-	2,48
01929	PZ 3	25	-	2,48
01177	PZ 1	25	10 (PP*)	29,34
01178	PZ 2	25	10 (PP*)	29,34
01179	PZ 3	25	10 (PP*)	29,34

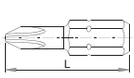
Bit TORSION 1/4" DIN/ISO 1173 Forma C 6,3 - profil Pozidriv

- *TORSION - versiune forjata pentru a se potrivi perfect la aplicatii grele (ex. lemn dur, metal)*
- *cuplu foarte bun, de aproximativ 110% peste standardul DIN*
- *fara acoperire*
- *DIN 5264-C, ISO 2380*



cobit tool technology





	Dimensiune	L	Ambalare	
60086	PZ 1	25	-	2,48
60087	PZ 2	25	-	2,48
60088	PZ 3	25	-	2,48
02535	PZ 1	25	10 (PP*)	29,34
02536	PZ 2	25	10 (PP*)	29,34
02537	PZ 3	25	10 (PP*)	29,34

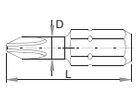
1300 Z

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - profil Pozidriv

- *DIN 5260, ISO 8764*
- *standard*



ASW



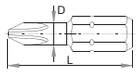
	Dimensiune	L	D	Ambalare	
013002	PZ 1	25	4,6	-	1,70
013005	PZ 2	25	6,0	-	1,70
013011	PZ 3	25	6,0	-	1,70

1300 CR

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - profil Pozidriv

- *DIN 5260, ISO 8764*
- *cu inel indentificare*



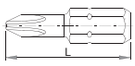


	Dimensiune	L	D	Ambalare	
013071	PZ 1	25	4,6	-	**2,77**
013072	PZ 2	25	6,0	-	**2,77**
013073	PZ 3	25	6,0	-	**2,77**

Bit IMPACT TORSION 1/4" DIN/ISO 1173 - Forma C 6,3 profil Pozidriv

- *IMPACT TORSION – versiune forjata pentru toate masinile de insurubat cu impact, impuls sau percutie*
- *fara acoperire*
- *material special*
- *tratament special*
- *cuplu maxim cu aproximativ 130% peste norma DIN*



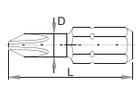


	Dimensiune	L	Ambalare	
10103	PZ 1	30	-	**3,61**
10104	PZ 2	30	-	**3,61**
10105	PZ 3	30	-	**3,61**
02503	PZ 1	30	10 (SYS**)	**42,12**
02504	PZ 2	30	10 (SYS**)	**42,12**
02505	PZ 3	30	10 (SYS**)	**42,12**

Bit hexagonal 1/4" de IMPACT BLUE SHOCK DIN/ISO 1173 Forma E 6,3 - profil Pozidrive

- *bitul dispune o zona de torsiune studiata si alungita pentru a rezista la cupluri ridicate si socuri violente in timpul utilizarii pe o masina de*
insurubat cu impact
- *duritate proiectata special pentru utilizarea pe masini de insurubat cu impact de mare putere*
- *varf ranforsat cu inel de sprijin pentru o durata de utilizare prelungita*
- *zona de torsiune este ranforsata din partea superioara si cea inferioara pentru o legatura mai puternica intre varf si corp si pentru a preveni ruperea bitului.*





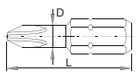
	Dimensiune	L	Ambalare	
UUSE0062461	PZ 2	30	5	**38,52**
UUSE0062462	PZ 3	30	5	**38,52**
UUSG0062461	PZ 2	30	10	**76,28**
UUSL0062461	PZ 2	30	25	**153,94**

1300 IMP

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - profil Pozidriv

- *DIN 5260, ISO 8764*
- *IMPACT*



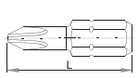


	Dimensiune	L	D	Ambalare	
013062	PZ 2	25	6,0	-	**5,39**
013063	PZ 3	25	6,0	-	**5,39**

Bit TiN CVD 1/4" DIN/ISO 1173 - Forma C 6,3 - profil Pozidriv

- *Titan TiN - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *acoperire Titan CVD pentru rezistenta mare la uzura*
- *duritatea suprafetei aproximativ 92-95 HRc*
- *cuplu maxim cu aproximativ 115% peste norma DIN*
- *DIN 5264-C, ISO 2380*





	Dimensiune	L	Ambalare	
03005	PZ 1	25	-	**4,96**
03006	PZ 2	25	-	**4,96**
03007	PZ 3	25	-	**4,96**
02618	PZ 1	25	10 (PP*)	**54,58**
02619	PZ 2	25	10 (PP*)	**54,58**
02620	PZ 3	25	10 (PP*)	**54,58**

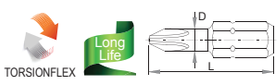
ISOTIN® PZ

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil Pozidriv

- *strat dublu de titanizare*
- *duritatea suprafetei 3000 Vickers*
- *duritatea optimizata a miezului si strat mai gros de titanizare asigura o durata de viata mai lunga decat cea a unui bit TiN standard*
- *protectie optima impotriva coroziunii*
- *potrivit pentru toate aplicatiile delicate in materiale dure si moi*
- *designul de torsiune combinat cu stratul ISOTIN® creste rezistenta pentru un cuplu de strangere*



DIN 5260



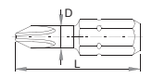
	Dimensiune	L	Ambalare	
UUSG0022360	PZ 1	25	10 (A*)	**72,67**
UUSG0022361	PZ 2	25	10 (A*)	**72,67**
UUSG0022362	PZ 3	25	10 (A*)	**72,67**

6466TINC6,3

Set 3 biti hexagonali 1/4" TiN Forma C 6,3 - profil Pozidrive

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





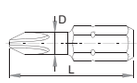
	Dimensiune	D	L	Ambalare	
604694	PZ 1	4,5	25	3	**38,58**
604695	PZ 2	6	25	3	**38,58**
604696	PZ 3	8	25	3	**38,58**

1300 DC

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - profil Pozidriv

- *DIN 5260, ISO 8764*
- *diamantat*



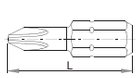


	Dimensiune	L	D	Ambalare	
013031	PZ 1	25	4,6	-	**13,10**
013032	PZ 2	25	6,0	-	**13,10**
013033	PZ 3	25	6,0	-	**13,10**

Bit DIAMOND TiN IMPACT 1/4" DIN/ISO 1173 - Forma C 6,3 - profil Pozidriv

- *DIAMANT Titan TiN CVD IMPACT TORSION – versiune forjata pentru toate masinile de insurubat cu impact, impuls sau percutie*
- *material special*
- *tratament special*
- *particulele de diamant reduc forta de respingere a surubului*
- *duritatea suprafetei aproximativ 92-95 HRc*
- *cuplu maxim cu aproximativ 130% peste norma DIN*
- *DIN 5264-C, ISO 2380*





	Dimensiune	L	Ambalare	Pret
60178	PZ 1	25	-	**16,56**
60179	PZ 2	25	-	**16,56**
60180	PZ 3	25	-	**16,56**
03107	PZ 1	25	5 (SYS**)	**88,72**
03108	PZ 2	25	5 (SYS**)	**88,72**
03109	PZ 3	25	5 (SYS**)	**88,72**

DIATIN® PZ

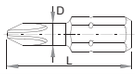
Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil Pozidriv

- *DiaTiN este o combinatie de acoperire TiN cu DLC (Diamond Like Carbon)*
- *strat de titan dublu.*
- *duritatea suprafetei de 3000 Vickers*
- *geometrie de torsiune*
- *protectie optima impotriva coroziunii*
- *acoperirea DLC imbunatateste rezistenta la uzura si prelungeste durata de viata a bitului*



DIN 5260

USH GERMANY · TORSIONFLEX · Long Life



	Dimensiune	L	Ambalare	
UUSE0032360	PZ 1	25	5 (A*)	56,25
UUSE0032361	PZ 2	25	5 (A*)	56,25
UUSE0032362	PZ 3	25	5 (A*)	56,25

STAINLESS STEEL PZ

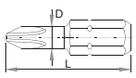
Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil Pozidriv

- *material: otel inoxidabil*
- *protectie optima impotriva coroziunii*
- *rugina externa pe otelul inoxidabil este rezultatul abraziunii la strangerea suruburilor folosind scule obisnuite din otel; materialul prelucrat cu astfel de instrumente prinde particule de otel care adera la suruburi si este transformat, in prezenta oxigenului, in rugina; folosirea bitilor din otel inoxidabil previne formarea ruginii externe pe suruburile sau suprafetele din otel inoxidabil*



DIN 5260

USH GERMANY · Long Life · ZERO RUST



	Dimensiune	L	Ambalare	
UUSE0062060N	PZ 1	25	5 (A*)	61,95
UUSE0062061N	PZ 2	25	5 (A*)	61,95
UUSE0062062N	PZ 3	25	5 (A*)	61,95

INDUSTRY PZ ACR

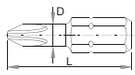
Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil Pozidriv ACR

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*



DIN 5260

USH GERMANY · TORSIONFLEX · Long Life



	Dimensiune	L	Ambalare	
UUSE0012860	PZ 1	25	5 (A*)	40,77
UUSE0012861	PZ 2	25	5 (A*)	40,77
UUSE0012862	PZ 3	25	5 (A*)	40,77

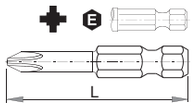
6506E6,3

Set 3 biti hexagonali 1/4" Forma E 6,3 - profil Pozidrive

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*



UNIOR



	Dimensiune	L	D	Ambalare	
602522	PZ 1	50	4,5	3	33,03
602523	PZ 2	50	6,0	3	33,03
602524	PZ 3	50	8,0	3	33,03

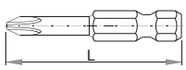
76500E6,3

Bit cu profil Pozidrive, varianta lunga

- *material: aliaj special S2 (1.2381 / 73 Mo V 5 2)*
- *duritate material: 58 +/- 2 HRc*
- *in conformitate cu standardele DIN 3126 ISO 1173*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*



KRONUS®



	Dimensiune	L	D	Ambalare	
70119601	PZ 1	50	4.5	-	2,11
70119701	PZ 2	50	6.0	-	2,11
70119801	PZ 3	50	6.0	-	2,11
900539	PZ 1	50	4.5	3	7,40
900540	PZ 2	50	6.0	3	7,40
900541	PZ 3	50	6.0	3	7,40
70119605	PZ 1	50	4.5	5	13,21
70119705	PZ 2	50	6.0	5	13,21
70119805	PZ 3	50	6.0	5	13,21
70119610	PZ 1	50	4.5	10	26,42
70119710	PZ 2	50	6.0	10	26,42
70119810	PZ 3	50	6.0	10	26,42

INDUSTRY PZ L

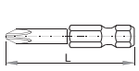
Bit hexagonal 1/4" DIN 3126 - Forma E 6,3 - profil Pozidriv lung

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*



DIN 5260

USH GERMANY · TORSIONFLEX · Long Life



	Dimensiune	L	Ambalare	
UUSE0013630[1]	PZ 1	50	5 (A*)	40,64
UUSE0013631[1]	PZ 2	50	5 (A*)	40,64
UUSE0013632[1]	PZ 3	50	5 (A*)	40,64

([1]) *profil de torsiune*

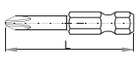
Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil Pozidriv

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 95% peste standardul DIN*
- *fara acoperire*
- *DIN 5260, ISO 8764*



cobit tool technology





	Dimensiune	L	Ambalare	
01646	PZ 1	50	-	4,91
01647	PZ 2	50	-	4,91
01648	PZ 3	50	-	4,91
01196	PZ 1	50	10 (PP*)	53,56
01197	PZ 2	50	10 (PP*)	53,56
01198	PZ 3	50	10 (PP*)	53,56

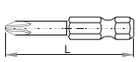
Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil Pozidriv

- *TORSION - versiune forjata pentru a se potrivi perfect la aplicatii grele (ex. lemn dur, metal)*
- *cuplu foarte bun, de aproximativ 100% peste standardul DIN*
- *fara acoperire*
- *DIN 5260, ISO 8764*



cobit tool technology





	Dimensiune	L	Ambalare	
60099	PZ 1	50	-	4,91
60100	PZ 2	50	-	4,91
60101	PZ 3	50	-	4,91
02752	PZ 1	50	10 (PP*)	53,56
02753	PZ 2	50	10 (PP*)	53,56
02754	PZ 3	50	10 (PP*)	53,56

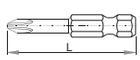
Bit IMPACT TORSION 1/4" DIN/ISO 1173 - Forma E 6,3 profil Pozidriv

- *IMPACT TORSION – versiune forjata pentru toate masinile de insurubat cu impact, impuls sau percutie*
- *fara acoperire*
- *material special*
- *tratament special*
- *cuplu maxim cu aproximativ 130% peste norma DIN*



cobit tool technology





	Dimensiune	L	Ambalare	
10115	PZ 1	50	-	6,53
10116	PZ 2	50	-	6,53
10117	PZ 3	50	-	6,53
02515	PZ 1	30	5 (SYS**)	38,78
02516	PZ 2	30	5 (SYS**)	38,78
02517	PZ 3	30	5 (SYS**)	38,78

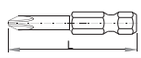
Bit TORSION TiN CVD 1/4" DIN/ISO 1173 - Forma E 6,3 - profil Pozidriv

- *Titan TiN - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *acoperire Titan CVD pentru rezistenta mare la uzura*
- *duritatea suprafetei aproximativ 92-95 HRc*
- *cuplu maxim cu aproximativ 115% peste norma DIN*
- *DIN 5260, ISO 8764*



cobit tool technology





	Dimensiune	L	Ambalare	
03015	PZ 1	50	-	11,00
03016	PZ 2	50	-	11,00
03017	PZ 3	50	-	11,00
02730	PZ 1	50	5 (PP*)	59,65
02731	PZ 2	50	5 (PP*)	59,65
02732	PZ 3	50	5 (PP*)	59,65

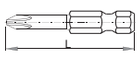
Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil Pozidriv

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 80% peste standardul DIN*
- *fara acoperire*
- *DIN 5260, ISO 8764*



cobit tool technology





	Dimensiune	L	Ambalare	
60409	PZ 1	70	-	12,08
60410	PZ 2	70	-	12,08
60411	PZ 3	70	-	12,08
01202	PZ 1	70	5 (PP*)	65,21
01206	PZ 2	70	5 (PP*)	65,21
01210	PZ 3	70	5 (PP*)	65,21

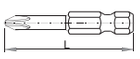
Bit TORSION 1/4" DIN/ISO 1173 - Forma E 6,3 profil Pozidriv

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 80% peste standardul DIN*
- *fara acoperire*
- *DIN 5260, ISO 8764*



cobit tool technology





	Dimensiune	L	Ambalare	
60412	PZ 1	90	-	13,21
60413	PZ 2	90	-	13,21
60414	PZ 3	90	-	14,29
01203	PZ 1	90	5 (PP*)	70,76
01207	PZ 2	90	5 (PP*)	70,76
01211	PZ 3	90	5 (PP*)	70,76

INDUSTRY PZ XL

Bit hexagonal 1/4" DIN 3126 - Forma E 6,3 - profil Pozidriv lung

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*

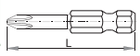


DIN 5260

USH GERMANY

TORSIONFLEX

Long Life



	Dimensiune	L	Ambalare	
UUSZ0136030	PZ 1	90	1 (D*)	46,60
UUSZ0136031	PZ 2	90	1 (D*)	46,60
UUSZ0136032	PZ 3	90	1 (D*)	46,60

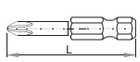
Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil Pozidriv

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 80% peste standardul DIN*
- *fara acoperire*
- *DIN 5260, ISO 8764*



cobit tool technology





	Dimensiune	L	Ambalare	
60425	PZ 1	150	-	18,23
60426	PZ 2	150	-	18,23
60427	PZ 3	150	-	18,23
01205	PZ 1	150	5 (PP*)	95,73
01209	PZ 2	150	5 (PP*)	95,73
01213	PZ 3	150	5 (PP*)	95,73

6486C8

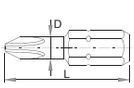
Set 3 biti hexagonali 5/16" Forma C 8 - profil Pozidrivet

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*



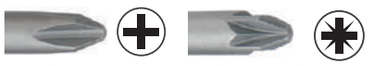
UNIOR





	Dimensiune	D	L	Ambalare	
602427	PZ 2	6	32	3	31,52
602428	PZ 3	8	32	3	31,52

PH sau PZ



Phillips (PH) **Pozidriv (PZ)**

Profilul PZ cu "varf aditional de ghidare" pentru o mai buna priza a bitului pe surubul actionat.
Folositi intotdeauna profil protrivit fiecarei aplicatii.

QUALITY INDUSTRY PZ

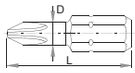
Bit hexagonal 5/16" DIN 3126 - Forma C 8 - profil Pozidriv

- *duritate in conformitate cu norma DIN*
- *protectie optima impotriva coroziunii*



USH GERMANY

DIN 5260



	Dimensiune	L	Ambalare	
UUSE0012560	PZ 1	32	5 (A*)	61,64
UUSE0012561	PZ 2	32	5 (A*)	61,64
UUSE0012562	PZ 3	32	5 (A*)	61,64
UUSE0012563	PZ 4	38	5 (A*)	129,44

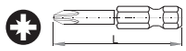
Bit hexagonal 1/4" BLUE SHOCK Forma E 6,3 - profil Pozidrive

- *bitul dispune o zona de torsiune studiata si alungita pentru a rezista la cupluri ridicate si socuri violente in timpul utilizarii pe o masina de insurubat cu impact*
- *duritate proiectata special pentru utilizarea pe masini de insurubat cu impact de mare putere*
- *varf ranforsat cu inel de sprijin pentru o durata de utilizare prelungita*

BLUE SHOCK



USH GERMANY



	Dimensiune	L	Ambalare	
UUSE0063431	PZ 2	50	5	59,94
UUSE0063432	PZ 3	50	5	59,94

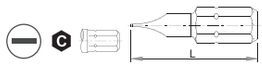
76460C6,3

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil lat

- *material: aliaj special S2 (1.2381 / 73 Mo V 5 2)*
- *duritate material: 58 +/- 2 HRc*
- *in conformitate cu standardele DIN 3126 ISO 1173*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*



KRONUS Professional Quality



	Dimensiune	L	D	Ambalare	
70100901	SL 4.5	25	4.5	-	1,41
70101001	SL 5.5	25	5.5	-	1,41
70101101	SL 6.5	25	6.5	-	1,41
900533	SL 4.5	25	4.5	3	5,29
900534	SL 5.5	25	5.5	3	5,29
900535	SL 6.5	25	6.5	3	5,29
70100905	SL 4.5	25	4.5	5	9,69
70101005	SL 5.5	25	5.5	5	9,69
70101105	SL 6.5	25	6.5	5	9,69
70100910	SL 4.5	25	4.5	10	19,38
70101010	SL 5.5	25	5.5	10	19,38
70101110	SL 6.5	25	6.5	10	19,38
70100925	SL 4.5	25	4.5	25	48,45
70101025	SL 5.5	25	5.5	25	48,45
70101125	SL 6.5	25	6.5	25	48,45

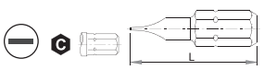
6460C6,3

Set 3 biti hexagonali 1/4" Forma C 6,3 - profil lat

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*



UNIOR



	Dimensiune	L		Ambalare	
602370	0.5 x 3.0	25		3	**21,06**
602371	0.5 x 4.0	25		3	**21,06**
602372	0.6 x 3.5	25		3	**21,06**
602373	0.6 x 4.5	25		3	**21,06**
602374	0.8 x 4.0	25		3	**21,06**
602375	0.8 x 5.5	25		3	**21,06**
602376	1.0 x 5.5	25		3	**21,06**
602377	1.2 x 6.5	25		3	**21,06**
602378	1.2 x 8.0	25		3	**22,91**

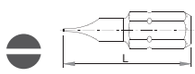
1100 CR

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - profil lal

- *DIN 5264-C, ISO 2380*
- *cu inel indentificare*



ASW



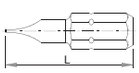
	Dimensiune	L	D	Ambalare	
011072	0,6 x 3,5	25		-	**3,54**
011074	0,6 x 4,5	25		-	**3,54**
011076	1,0 x 5,5	25		-	**3,54**
011077	1,2 x 6,5	25		-	**3,54**

Bit TORSION 1/4" DIN/ISO 1173 Forma C 6,3 - profil lat

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 90% peste standardul DIN*
- *fara acoperire*
- *DIN 5264-C, ISO 2380*



cobit tool technology



	Dimensiune	L		Ambalare	
60274	0,6 x 3,5	25		-	**3,29**
60275	0,5 x 4,0	25		-	**3,29**
60276	0,6 x 4,5	25		-	**3,29**
60277	0,8 x 5,5	25		-	**3,29**
60278	1,0 x 5,5	25		-	**3,29**
60279	1,2 x 6,5	25		-	**3,29**
01000	0,6 x 3,5	25		10 (PP*)	**37,48**
01509	0,5 x 4,0	25		10 (PP*)	**37,48**
01001	0,6 x 4,5	25		10 (PP*)	**37,48**
01002	0,8 x 5,5	25		10 (PP*)	**37,48**
01003	1,0 x 5,5	25		10 (PP*)	**37,48**
01004	1,2 x 6,5	25		10 (PP*)	**37,48**

INDUSTRY SL

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil lat

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*

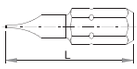


DIN 3127

USH GERMANY

TORSIONFLEX

Long Life



	Dimensiune	L		Ambalare	
UUSE0112000	0,5 x 3,0	25		5 (A*)	**23,99**
UUSE0112001	0,5 x 4,0	25		5 (A*)	**23,99**
UUSE0112002	0,6 x 3,5	25		5 (A*)	**23,99**
UUSE0112303[1]	0,6 x 4,5	25		5 (A*)	**23,99**
UUSE0112004	0,8 x 4,5	25		5 (A*)	**23,99**
UUSE0112305[1]	0,8 x 5,5	25		5 (A*)	**23,99**
UUSE0112307[1]	1,2 x 6,5	25		5 (A*)	**23,99**
UUSE0112008	1,2 x 8,0	25		5 (A*)	**23,99**
UUSE0112009	1,6 x 8,0	25		5 (A*)	**23,99**
UUSE0112306[1]	1,0 x 5,5	25		5 (A*)	**23,99**

([1]) *profil de torsiune*

ISOTIN® SL

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil lat

- *strat dublu de titanizare*
- *duritatea suprafetei 3000 Vickers*
- *duritatea optimizata a miezului si strat mai gros de titanizare asigura o durata de viata mai lunga decat cea a unui bit TiN standard*
- *protectie optima impotriva coroziunii*
- *potrivit pentru toate aplicatiile delicate in materiale dure si moi*
- *designul de torsiune combinat cu stratul ISOTIN® creste rezistenta pentru un cuplu de strangere*

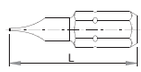


DIN 3127

USH GERMANY

TORSIONFLEX

Long Life



	Dimensiune	L		Ambalare	
UUSG0212303	0,6 x 4,5	25		10 (A*)	**117,75**
UUSG0212305	0,8 x 5,5	25		10 (A*)	**117,75**
UUSG0212306	1,0 x 5,5	25		10 (A*)	**117,75**
UUSG0212307	1,2 x 6,5	25		10 (A*)	**117,75**

DIATIN® SL

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil lat

- *DiaTiN este o combinatie de acoperire TiN cu DLC (Diamond Like Carbon)*
- *strat de titan dublu.*
- *duritatea suprafetei de 3000 Vickers*
- *geometrie de torsiune*
- *protectie optima impotriva coroziunii*
- *acoperirea DLC imbunatateste rezistenta la uzura si prelungeste durata de viata a bitului*

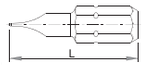


DIN 3127

USH GERMANY

TORSIONFLEX

Long Life



	Dimensiune	L		Ambalare	
UUSE0032303	0,6 x 4,5	25		5 (A*)	**61,49**
UUSE0032305	0,8 x 5,5	25		5 (A*)	**61,49**
UUSE0032306	1,0 x 5,5	25		5 (A*)	**61,49**
UUSE0032307	1,2 x 6,5	25		5 (A*)	**61,49**

STAINLESS STEEL SL

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil lat

- *material: otel inoxidabil*
- *protectie optima impotriva coroziunii*
- *rugina externa pe otelul inoxidabil este rezultatul abraziunii la strangerea suruburilor folosind scule obisnuite din otel; materialul prelucrat cu astfel de instrumente prinde particule de otel care adera la suruburi si este transformat, in prezenta oxigenului, in rugina; folosirea bitilor din otel inoxidabil previne formarea ruginii externe pe suruburile sau suprafetele din otel inoxidabil*

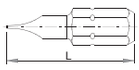


DIN 3127

USH GERMANY

Long Life

ZERO RUST



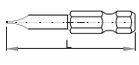
	Dimensiune	L		Ambalare	
UUSE0612004N	0,8 x 4,0	25		5 (A*)	**61,95**
UUSE0062002N	0,8 x 5,0	25		5 (A*)	**61,95**
UUSE0612005N	0,8 x 5,5	25		5 (A*)	**61,95**
UUSE0612007N	1,2 x 6,5	25		5 (A*)	**61,95**

Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil lat

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 95% peste standardul DIN*
- *fara acoperire*
- *DIN DIN 5264-C, ISO 2380*



cobit tool technology



	Dimensiune	L		Ambalare	
60490	0,5 x 3,0	50		-	**5,99**
60492	0,6 x 3,5	50		-	**5,99**
60494	0,8 x 4,0	50		-	**5,99**
60496	1,0 x 5,5	50		-	**5,99**
60498	1,2 x 6,5	50		-	**5,99**
01018	0,5 x 3,0	50		10 (PP*)	**64,67**
01021	0,6 x 3,5	50		10 (PP*)	**64,67**
01026	0,8 x 4,0	50		10 (PP*)	**64,67**
01031	1,0 x 5,5	50		10 (PP*)	**64,67**
01036	1,2 x 6,5	50		10 (PP*)	**64,67**

INDUSTRY SL L

Bit hexagonal 1/4" DIN 3126 - Forma E 6,3 - profil lat lung

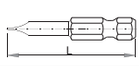
- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*



USH GERMANY

TORSIONFLEX

Long Life



	Dimensiune	L		Ambalare	
UUSE0113603[1]	0,6 x 4,5	50		5 (A*)	**41,05**
UUSE0113605[1]	0,8 x 5,5	50		5 (A*)	**41,05**
UUSE0113606[1]	1,0 x 5,5	50		5 (A*)	**41,05**
UUSE0113607[1]	1,2 x 6,5	50		5 (A*)	**41,05**

([1]) *profil de torsiune*

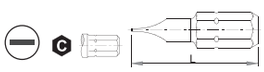
6480C8

Set 3 biti hexagonali 5/16" Forma C 8 - profil lat

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*



UNIOR



	Dimensiune	L	Ambalare	
602414	1.0 x 5.5	41	3	33,03
602415	1.2 x 6.5	41	3	33,03
602416	1.2 x 8.0	41	3	33,03
602417	1.6 x 8.0	41	3	33,03
602418	1.6 x 10.0	41	3	42,13
602419	2.0 x 12.0	41	3	52,59

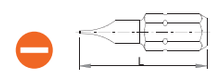
QUALITY INDUSTRY SL

Bit hexagonal 5/16" DIN 3126 - Forma C 8 - profil lat

- *duritate in conformitate cu norma DIN*
- *protectie optima impotriva coroziunii*



USH GERMANY



	Dimensiune	L	Ambalare	
UUSE0112514	0,8 x 5,5	41	5 (A*)	89,38
UUSE0112515	1,0 x 5,5	41	5 (A*)	89,38
UUSE0112516	1,2 x 6,5	41	5 (A*)	89,38
UUSE0112517	1,2 x 8,0	41	5 (A*)	89,38
UUSE0112518	1,6 x 8,0	41	5 (A*)	100,16
UUSE0112519	1,6 x 10,0	41	5 (A*)	147,93
UUSE0112520	2,0 x 12,0	41	5 (A*)	178,75

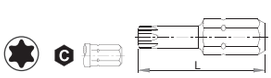
6472C6,3

Set 3 biti hexagonali 1/4" Forma C 6,3 - profil TORX®

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*



UNIOR



	Dimensiune	L	Ambalare	
602405	TX 6	25	3	24,27
602406	TX 7	25	3	24,27
602407	TX 8	25	3	24,27
602408	TX 9	25	3	24,27
602409	TX 10	25	3	24,27
602410	TX 15	25	3	24,27
602411	TX 20	25	3	24,27
602412	TX 25	25	3	24,27
621283	TX 27	25	3	24,32
621284	TX 30	25	3	24,32
621285	TX 40	25	3	24,32

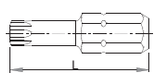
76472C6,3

Bit cu profil TORX®

- *material: aliaj special S2 (1.2381 / 73 Mo V 5 2)*
- *duritate material: 58 +/- 2 HRc*
- *in conformitate cu standardele DIN 3126 ISO 1173*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*



KRONUS

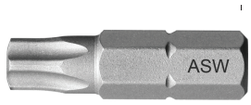


	Dimensiune	L	D	Ambalare	
70128301	TX 10	25	4.0	-	1,59
70128401	TX 15	25	4.0	-	1,59
70128501	TX 20	25	4.5	-	1,59
70128601	TX 25	25	5.0	-	1,59
70128801	TX 30	25	6.0	-	1,59
70128901	TX 40	25	1/4"	-	1,59
70129101	TX 50	25	9.0	-	2,47
900522	TX 10	25	4.0	3	5,83
900523	TX 15	25	4.0	3	5,83
900524	TX 20	25	4.5	3	5,83
900525	TX 25	25	5.0	3	5,83
900526	TX 30	25	6.0	3	5,83
900527	TX 40	25	1/4"	3	5,83
900528	TX 50	25	9.0	3	8,48
70128305	TX 10	25	4.0	5	10,57
70128405	TX 15	25	4.0	5	10,57
70128505	TX 20	25	4.5	5	10,57
70128605	TX 25	25	5.0	5	10,57
70128805	TX 30	25	6.0	5	10,57
70128905	TX 40	25	1/4"	5	10,57
70129105	TX 50	25	9.0	5	14,97
70128310	TX 10	25	4.0	10	21,14
70128410	TX 15	25	4.0	10	21,14
70128510	TX 20	25	4.5	10	21,14
70128610	TX 25	25	5.0	10	21,14
70128810	TX 30	25	6.0	10	21,14
70128910	TX 40	25	1/4"	10	21,14
70129110	TX 50	25	9.0	10	29,95
70128325	TX 10	25	4.0	25	52,85
70128425	TX 15	25	4.0	25	52,85
70128525	TX 20	25	4.5	25	52,85
70128625	TX 25	25	5.0	25	52,85
70128825	TX 30	25	6.0	25	52,85
70128925	TX 40	25	1/4"	25	52,85
70129125	TX 50	25	9.0	25	74,87

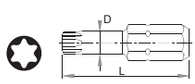
1400 Z

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - Profil TORX®

- *standard*



ASW



	Dimensiune	L	D	Ambalare	
014008	T 10	25	3,0	-	3,08
014009	T 15	25	4,0	-	3,08
014010	T 20	25	4,0	-	3,08
014011	T 25	25	4,5	-	3,08
014012	T 27	25	5,5	-	3,08
014013	T 30	25	6,0	-	3,08
014014	T 40	25	-	-	3,08

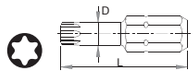
1400 CR

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - Profil TORX®

- *cu inel indentificare*



ASW



	Dimensiune	L	D	Ambalare	
014078	T 10	25	3,0	-	3,70
014079	T 15	25	4,0	-	3,70
014080	T 20	25	4,0	-	3,70
014081	T 25	25	4,5	-	3,70
014082	T 27	25	5,5	-	3,70
014083	T 30	25	6,0	-	3,70
014084	T 40	25	-	-	3,70

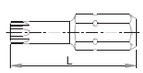
Bit TORSION 1/4" DIN/ISO 1173 Forma C 6,3 - profil TORX®

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 90% peste standardul DIN*
- *fara acoperire*



cobit tool technology





	Dimensiune	L	Ambalare	
60195	TX 10	25	-	2,91
01600	TX 15	25	-	2,91
01601	TX 20	25	-	2,91
01602	TX 25	25	-	2,91
60196	TX 27	25	-	2,91
01603	TX 30	25	-	2,91
01604	TX 40	25	-	2,91
01271	TX 10	25	10 (PP*)	33,22
01272	TX 15	25	10 (PP*)	33,22
01273	TX 20	25	10 (PP*)	33,22
01274	TX 25	25	10 (PP*)	33,22
01275	TX 27	25	10 (PP*)	33,22
01276	TX 30	25	10 (PP*)	33,22
01277	TX 40	25	10 (PP*)	33,22

INDUSTRY TX

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil TORX®

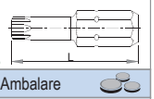
- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*



USH GERMANY

TORSIONFLEX

Long Life



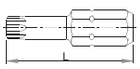
	Dimensiune	L	Ambalare	
UUSE0012088	TX 5	25	10 (A*)	26,50
UUSE0012089	TX 6	25	10 (A*)	26,50
UUSE0012090	TX 7	25	10 (A*)	26,50
UUSE0012091	TX 8	25	10 (A*)	26,50
UUSE0012092	TX 9	25	10 (A*)	26,50
UUSE0012393[1]	TX 10	25	10 (A*)	26,50
UUSE0012394[1]	TX 15	25	10 (A*)	26,50
UUSE0012395[1]	TX 20	25	10 (A*)	26,50
UUSE0012396[1]	TX 25	25	10 (A*)	26,50
UUSE0012397[1]	TX 27	25	10 (A*)	26,50
UUSE0012398[1]	TX 30	25	10 (A*)	26,50
UUSE0012399[1]	TX 40	25	10 (A*)	26,50

([1]) *profil de torsiune*

Bit TORSION 1/4" DIN/ISO 1173 Forma C 6,3 - profil TORX®

• *TORSION - versiune forjata pentru a se potrivi perfect la aplicatii grele (ex. lemn dur, metal)*
• *cuplu foarte bun, de aproximativ 110% peste standardul DIN*
• *fara acoperire*



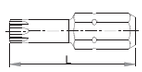


	Dimensiune	L	Ambalare	Pret
60089	TX 10	25	-	**2,91**
60090	TX 15	25	-	**2,91**
60091	TX 20	25	-	**2,91**
60092	TX 25	25	-	**2,91**
60094	TX 30	25	-	**2,91**
60095	TX 40	25	-	**2,91**
02547	TX 10	25	10 (PP*)	**33,22**
02548	TX 15	25	10 (PP*)	**33,22**
02549	TX 20	25	10 (PP*)	**33,22**
02550	TX 25	25	10 (PP*)	**33,22**
02552	TX 30	25	10 (PP*)	**33,22**
02553	TX 40	25	10 (PP*)	**33,22**

Bit TORSION 1/4" DIN/ISO 1173 Forma C 6,3 - profil TORX® T-Rip

• *TORSION - versiune forjata pentru a se potrivi perfect la aplicatii grele (ex. lemn dur, metal)*
• *cuplu foarte bun, de aproximativ 110% peste standardul DIN*
• *fara acoperire*





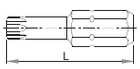
	Dimensiune	L	Ambalare	Pret
60541	T-Rip 10	25	-	**3,45**
60542	T-Rip 15	25	-	**3,45**
60543	T-Rip 20	25	-	**3,45**
60544	T-Rip 25	25	-	**3,45**
60545	T-Rip 30	25	-	**3,45**
60546	T-Rip 40	25	-	**3,45**
02790	T-Rip 10	25	10 (PP*)	**38,78**
02791	T-Rip 15	25	10 (PP*)	**38,78**
02792	T-Rip 20	25	10 (PP*)	**38,78**
02793	T-Rip 25	25	10 (PP*)	**38,78**
02794	T-Rip 30	25	10 (PP*)	**38,78**
02795	T-Rip 40	25	10 (PP*)	**38,78**



Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil TORX® cu gaura

• *STANDARD - versiune frezata*
• *fara acoperire*





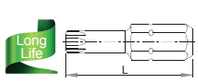
	Dimensiune	L	Ambalare	
60202	TX BO 07	25	-	**4,37**
60203	TX BO 08	25	-	**4,37**
60204	TX BO 09	25	-	**4,37**
60205	TX BO 10	25	-	**4,37**
60206	TX BO 15	25	-	**4,37**
60207	TX BO 20	25	-	**4,37**
60208	TX BO 25	25	-	**4,37**
60209	TX BO 27	25	-	**4,37**
60210	TX BO 30	25	-	**4,37**
60211	TX BO 40	25	-	**4,37**
01292	TX BO 07	25	10 (PP*)	**48,54**
01293	TX BO 08	25	10 (PP*)	**48,54**
01294	TX BO 09	25	10 (PP*)	**48,54**
01295	TX BO 10	25	10 (PP*)	**48,54**
01296	TX BO 15	25	10 (PP*)	**48,54**
01297	TX BO 20	25	10 (PP*)	**48,54**
01298	TX BO 25	25	10 (PP*)	**48,54**
01299	TX BO 27	25	10 (PP*)	**48,54**
01300	TX BO 30	25	10 (PP*)	**48,54**
01301	TX BO 40	25	10 (PP*)	**48,54**

INDUSTRY TX Temper

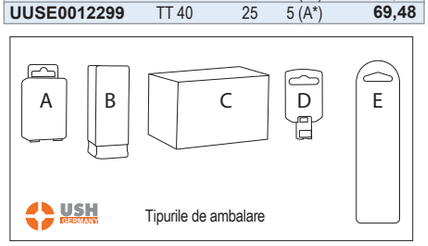
Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil TORX® cu gaura

• *design de torsiune*
• *duritate in conformitate cu norma DIN*
• *sablat*
• *protectie optima impotriva coroziunii*





	Dimensiune	L	Ambalare	
UUSE0012293	TT 10	25	5 (A*)	**69,48**
UUSE0012294	TT 15	25	5 (A*)	**69,48**
UUSE0012295	TT 20	25	5 (A*)	**69,48**
UUSE0012296	TT 25	25	5 (A*)	**69,48**
UUSE0012298	TT 30	25	5 (A*)	**69,48**
UUSE0012299	TT 40	25	5 (A*)	**69,48**







Ambalare punga polietilena ***PP***

Ambalare cutie plastic ***SYS***

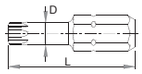
	Nm	A Ref. in mm
TX 1	0,10	0,84
TX 2	0,14	0,94
TX 3	0,25	1,12
TX 4	0,37	1,30
TX 5	0,51	1,37
TX 6	0,91	1,65
TX 7	1,7	1,97
TX 8	2,6	2,30
TX 9	3,4	2,48
TX 10	4,5	2,72
TX 15	7,7	3,26
TX 20	12,7	3,84
TX 25	19,0	4,40
TX 27	26,9	4,96
TX 30	37,4	5,49
TX 40	65,1	6,60
TX 45	104	7,70
TX 50	159	8,79
TX 55	257	11,17
TX 60	445	13,20
TX 70	701	15,49

1400 IMP

Bit hexagonal 1/4" DIN/ISO 1173 Forma C 6,3 - Profil TORX®

• *IMPACT*



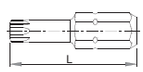


	Dimensiune	L	D	Ambalare	
014090	T 20	25	4,0	10	**7,86**
014091	T 25	25	4,5	10	**7,86**
014093	T 30	25	6,0	10	**7,86**
014094	T 40	25	-	10	**7,86**

Bit hexagonal 1/4" de IMPACT BLUE SHOCK DIN/ISO 1173 Forma E 6,3 - profil TORX®

• *bitul dispune o zona de torsiune studiata si alungita pentru a rezista la cupluri ridicate si socuri violente in timpul utilizarii pe o masina de*
insurubat cu impact
• *duritate proiectata special pentru utilizarea pe masini de insurubat cu impact de mare putere*
• *varf ranforsat cu inel de sprijin pentru o durata de utilizare prelungita*
• *zona de torsiune este ranforsata din partea superioara si cea inferioara pentru o legatura mai puternica intre varf si corp si pentru a preveni ruperea bitului.*





	Dimensiune	L	Ambalare	
UUSE0062493	TX 10	30	5	**46,08**
UUSE0062494	TX 15	30	5	**46,08**
UUSE0062495	TX 20	30	5	**46,08**
UUSE0062496	TX 25	30	5	**46,08**
UUSE0062498	TX 30	30	5	**46,08**
UUSE0062499	TX 40	30	5	**46,08**
UUSL0062495	TX 20	30	5	**153,94**
UUSL0062496	TX 25	30	5	**153,94**
UUSL0062498	TX 30	30	5	**153,94**

Bit IMPACT TORSION 1/4" DIN/ISO 1173 - Forma C 6,3 profil TORX®

- *IMPACT TORSION – versiune forjata pentru toate masinile de insurubat cu impact, impuls sau percutie*
- *fara acoperire*
- *material special*
- *tratament special*



	Dimensiune	L	Ambalare	
10106	TX 10	30	-	**4,15**
10107	TX 15	30	-	**4,15**
10108	TX 20	30	-	**4,15**
10109	TX 25	30	-	**4,15**
10110	TX 30	30	-	**4,15**
10111	TX 40	30	-	**4,15**
02506	TX 10	30	10 (SYS**)	**47,68**
02507	TX 15	30	10 (SYS**)	**47,68**
02508	TX 20	30	10 (SYS**)	**47,68**
02509	TX 25	30	10 (SYS**)	**47,68**
02510	TX 30	30	10 (SYS**)	**47,68**
02511	TX 40	30	10 (SYS**)	**47,68**

6472TINC6,3

Bit hexagonal 1/4" TiN Forma C 6,3 - profil TORX®

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*



	Dimensiune	L	Ambalare	
604699	TX 10	25	3	**35,22**
604700	TX 15	25	3	**35,22**
604701	TX 20	25	3	**35,22**
604702	TX 25	25	3	**35,22**
604825	TX 30	25	3	**35,22**

DIATIN® TX

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil TORX®

- *DiaTiN este o combinatie de acoperire TiN cu DLC (Diamond Like Carbon)*
- *strat de titan dublu.*
- *duritatea suprafetei de 3000 Vickers*
- *geometrie de torsiune*
- *protectie optima impotriva coroziunii*
- *acoperirea DLC imbunatateste rezistenta la uzura si prelungeste durata de viata a bitului*



	Dimensiune	L	Ambalare	
UUSE0032393	TX 10	25	5 (A*)	**68,88**
UUSE0032394	TX 15	25	5 (A*)	**68,88**
UUSE0032395	TX 20	25	5 (A*)	**68,88**
UUSE0032396	TX 25	25	5 (A*)	**68,88**
UUSE0032398	TX 30	25	5 (A*)	**68,88**
UUSE0032399	TX 40	25	5 (A*)	**68,88**

Bit TiN CVD 1/4" DIN/ISO 1173 - Forma C 6,3 - profil TORX®

- *Titan TiN - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *acoperire Titan CVD pentru rezistenta mare la uzura*
- *duritatea suprafetei aproximativ 92-95 HRc*



	Dimensiune	L	Ambalare	
03020	TX 10	25	-	**5,82**
03021	TX 15	25	-	**5,82**
03022	TX 20	25	-	**5,82**
03023	TX 25	25	-	**5,82**
03025	TX 30	25	-	**5,82**
03026	TX 40	25	-	**5,82**
02621	TX 10	25	10 (PP*)	**63,21**
02622	TX 15	25	10 (PP*)	**63,21**
02623	TX 20	25	10 (PP*)	**63,21**
02624	TX 25	25	10 (PP*)	**63,21**
02625	TX 30	25	10 (PP*)	**63,21**
02626	TX 40	25	10 (PP*)	**63,21**

Bit DIAMOND TiN IMPACT 1/4" DIN/ISO 1173 - Forma C 6,3 - profil TORX®

- *DIAMANT Titan TiN CVD IMPACT TORSION – versiune forjata pentru toate masinile de insurubat cu impact, impuls sau percutie*
- *material special*
- *tratament special*
- *particulele de diamant reduc forta de respingere a surubului*
- *duritatea suprafetei aproximativ 92-95 HRc*



	Dimensiune	L	Ambalare	
60231	TX 10	25	-	**18,77**
60232	TX 15	25	-	**18,77**
60233	TX 20	25	-	**18,77**
60234	TX 25	25	-	**18,77**
60235	TX 27	25	-	**18,77**
60236	TX 30	25	-	**18,77**
60237	TX 40	25	-	**18,77**
03201	TX 10	25	5 (SYS**)	**99,83**
03202	TX 15	25	5 (SYS**)	**99,83**
03203	TX 20	25	5 (SYS**)	**99,83**
03204	TX 25	25	5 (SYS**)	**99,83**
03205	TX 27	25	5 (SYS**)	**99,83**
03206	TX 30	25	5 (SYS**)	**99,83**
03207	TX 40	25	5 (SYS**)	**99,83**



STAINLESS STEEL TX

Bit hexagonal 1/4" DIN 3126 Forma C 6,3 - profil TORX®

- *material: otel inoxidabil*
- *protectie optima impotriva coroziunii*
- *rugina externa pe otelul inoxidabil este rezultatul abraziunii la strangerea suruburilor folosind scule obisnuite din otel; materialul prelucrat cu astfel de instrumente prinde particule de otel care adera la suruburi si este transformat, in prezenta oxigenului, in rugina; folosirea biților din otel inoxidabil previne formarea ruginii externe pe suruburile sau suprafetele din otel inoxidabil*



	Dimensiune	L	Ambalare	
UUSE0062093N	TX 10	25	5 (A*)	**61,95**
UUSE0062094N	TX 15	25	5 (A*)	**61,95**
UUSE0062095N	TX 20	25	5 (A*)	**61,95**
UUSE0062096N	TX 25	25	5 (A*)	**61,95**
UUSE0062098N	TX 30	25	5 (A*)	**61,95**
UUSE0062099N	TX 40	25	5 (A*)	**61,95**

76507E6,3

Bit cu profil TORX®, varianta lunga

- *material: aliaj special S2 (1.2381 / 73 Mo V 5 2)*
- *duritate material: 58 +/- 2 HRc*
- *in conformitate cu standardele DIN 3126 ISO 1173*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*



	Dimensiune	L	D	Ambalare	
70133801	TX 10	50	4.0	vrac	**2,38**
70134201	TX 15	50	4.0	vrac	**2,38**
70134601	TX 20	50	4.5	vrac	**2,38**
70135001	TX 25	50	5.0	vrac	**2,38**
70135801	TX 30	50	6.0	vrac	**2,38**
70136201	TX 40	50	1/4"	vrac	**2,38**
900542	TX 10	50	4.0	3	**8,19**
900543	TX 15	50	4.0	3	**8,19**
900544	TX 20	50	4.5	3	**8,19**
900545	TX 25	50	5.0	3	**8,19**
900546	TX 30	50	6.0	3	**8,19**
900547	TX 40	50	1/4"	3	**8,19**
70133805	TX 10	50	4.0	5	**14,53**
70134205	TX 15	50	4.0	5	**14,53**
70134605	TX 20	50	4.5	5	**14,53**
70135005	TX 25	50	5.0	5	**14,53**
70135805	TX 30	50	6.0	5	**14,53**
70136205	TX 40	50	1/4"	5	**14,53**
70133810	TX 10	50	4.0	10	**29,07**
70134210	TX 15	50	4.0	10	**29,07**
70134610	TX 20	50	4.5	10	**29,07**
70135010	TX 25	50	5.0	10	**29,07**
70135810	TX 30	50	6.0	10	**29,07**
70136210	TX 40	50	1/4"	10	**29,07**

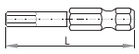
Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil TORX®

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 95% peste standardul DIN*
- *fara acoperire*



cobit tool technology





	Dimensiune	L	Ambalare	
60441	TX 10	50	-	**5,45**
60442	TX 15	50	-	**5,45**
60443	TX 20	50	-	**5,45**
60444	TX 25	50	-	**5,45**
60445	TX 27	50	-	**5,45**
60446	TX 30	50	-	**5,45**
60447	TX 40	50	-	**5,45**
01338	TX 10	50	10 (PP*)	**59,11**
01342	TX 15	50	10 (PP*)	**59,11**
01346	TX 20	50	10 (PP*)	**59,11**
01350	TX 25	50	10 (PP*)	**59,11**
01354	TX 27	50	10 (PP*)	**59,11**
01358	TX 30	50	10 (PP*)	**59,11**
01362	TX 40	50	10 (PP*)	**59,11**

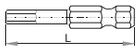
Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil TORX®

- *TORSION - versiune forjata pentru a se potrivi perfect la aplicatii grele (ex. lemn dur, metal)*
- *cuplu foarte bun, de aproximativ 100% peste standardul DIN*
- *fara acoperire*

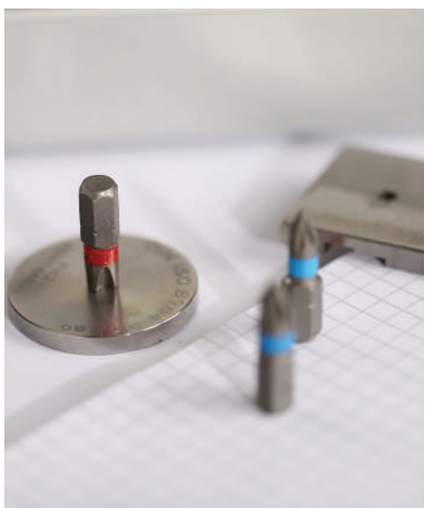


cobit tool technology





	Dimensiune	L	Ambalare	
60102	TX 10	50	-	**5,45**
60103	TX 15	50	-	**5,45**
60104	TX 20	50	-	**5,45**
60105	TX 25	50	-	**5,45**
60107	TX 30	50	-	**5,45**
60108	TX 40	50	-	**5,45**
02808	TX 10	50	5 (PP*)	**31,93**
02809	TX 15	50	5 (PP*)	**31,93**
02810	TX 20	50	5 (PP*)	**31,93**
02811	TX 25	50	5 (PP*)	**31,93**
02812	TX 30	50	5 (PP*)	**31,93**
02813	TX 40	50	5 (PP*)	**31,93**



INDUSTRY TX L

Bit hexagonal 1/4" DIN 3126 - Forma E 6,3 - profil TORX® lung

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*





	Dimensiune	L	Ambalare	
UUSE0103654[1]	TX 10	50	5 (A*)	**92,51**
UUSE0103655[1]	TX 15	50	5 (A*)	**92,51**
UUSE0103656[1]	TX 20	50	5 (A*)	**92,51**
UUSE0103657[1]	TX 25	50	5 (A*)	**92,51**
UUSE0103658[1]	TX 27	50	5 (A*)	**92,51**
UUSE0103659[1]	TX 30	50	5 (A*)	**92,51**
UUSE0103660[1]	TX 40	50	5 (A*)	**92,51**

([1]) *profil de torsiune*

INDUSTRY TX XL

Bit hexagonal 1/4" DIN 3126 - Forma E 6,3 - profil TORX® lung

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*





	Dimensiune	L	Ambalare	
UUSZ0136095	TX 20	90	1 (D*)	**49,37**
UUSZ0136096	TX 25	90	1 (D*)	**49,37**
UUSZ0136097	TX 27	90	1 (D*)	**49,37**
UUSZ0136098	TX 30	90	1 (D*)	**49,37**
UUSZ0136099	TX 40	90	1 (D*)	**49,37**

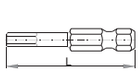
Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil TORX®

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 95% peste standardul DIN*
- *fara acoperire*



cobit tool technology





	Dimensiune	L	Ambalare	
60454	TX 10	70	-	**12,67**
60455	TX 15	70	-	**12,67**
60456	TX 20	70	-	**12,67**
60457	TX 25	70	-	**12,67**
60458	TX 30	70	-	**12,67**
60459	TX 40	70	-	**12,67**
01339	TX 10	70	5 (PP*)	**68,01**
01343	TX 15	70	5 (PP*)	**68,01**
01347	TX 20	70	5 (PP*)	**68,01**
01351	TX 25	70	5 (PP*)	**68,01**
01359	TX 30	70	5 (PP*)	**68,01**
01363	TX 40	70	5 (PP*)	**68,01**

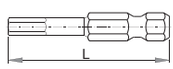
Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil TORX®

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 80% peste standardul DIN*
- *fara acoperire*



cobit tool technology





	Dimensiune	L	Ambalare	
60460	TX 10	90	-	**13,75**
60461	TX 15	90	-	**13,75**
60462	TX 20	90	-	**13,75**
60463	TX 25	90	-	**13,75**
60464	TX 30	90	-	**13,75**
60465	TX 40	90	-	**13,75**
01340	TX 10	90	5 (PP*)	**73,51**
01344	TX 15	90	5 (PP*)	**73,51**
01348	TX 20	90	5 (PP*)	**73,51**
01352	TX 25	90	5 (PP*)	**73,51**
01360	TX 30	90	5 (PP*)	**73,51**
01364	TX 40	90	5 (PP*)	**73,51**

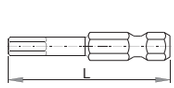
Bit TORSION 1/4" DIN/ISO 1173 Forma E 6,3 - profil TORX®

- *TORSION - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *cuplu foarte bun, de aproximativ 80% peste standardul DIN*
- *fara acoperire*

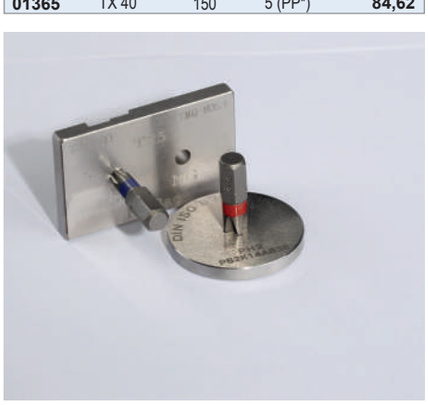


cobit tool technology





	Dimensiune	L	Ambalare	
60478	TX 10	150	-	**15,96**
60479	TX 15	150	-	**15,96**
60480	TX 20	150	-	**15,96**
60481	TX 25	150	-	**15,96**
60482	TX 30	150	-	**15,96**
60483	TX 40	150	-	**15,96**
01341	TX 10	150	5 (PP*)	**84,62**
01345	TX 15	150	5 (PP*)	**84,62**
01349	TX 20	150	5 (PP*)	**84,62**
01353	TX 25	150	5 (PP*)	**84,62**
01361	TX 30	150	5 (PP*)	**84,62**
01365	TX 40	150	5 (PP*)	**84,62**



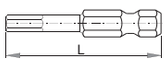
Bit IMPACT TORSION 1/4" DIN/ISO 1173 - Forma E 6,3 profil TORX® T-Rip

- *IMPACT TORSION – versiune forjata pentru toate masinile de insurubat cu impact, impuls sau percutie*
- *fara acoperire*
- *material special*
- *tratament special*



cobit tool technology





	Dimensiune	L	Ambalare	
60547	T-Rip 10	50	-	**7,93**
60548	T-Rip 15	50	-	**7,93**
60549	T-Rip 20	50	-	**7,93**
60550	T-Rip 25	50	-	**7,93**
60551	T-Rip 30	50	-	**7,93**
60552	T-Rip 40	50	-	**7,93**
03528	T-Rip 10	50	5 (SYS**)	**45,79**
03529	T-Rip 15	50	5 (SYS**)	**45,79**
03530	T-Rip 20	50	5 (SYS**)	**45,79**
03531	T-Rip 25	50	5 (SYS**)	**45,79**
03532	T-Rip 30	50	5 (SYS**)	**45,79**
03533	T-Rip 40	50	5 (SYS**)	**45,79**

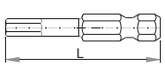
Bit TORSION TiN CVD 1/4" DIN/ISO 1173 - Forma E 6,3 - profil TORX®

- *Titan TiN - versiune frezata pentru a se potrivi perfect la aplicatii usoare (ex. lemn de esenta moale)*
- *acoperire Titan CVD pentru rezistenta mare la uzura*
- *duritatea suprafetei aproximativ 92-95 HRc*



cobit tool technology





	Dimensiune	L	Ambalare	
03040	TX 10	50	-	**12,67**
03041	TX 15	50	-	**12,67**
03042	TX 20	50	-	**12,67**
03043	TX 25	50	-	**12,67**
03045	TX 30	50	-	**34,90**
03046	TX 40	50	-	**35,59**
02755	TX 10	50	5 (PP*)	**68,01**
02756	TX 15	50	5 (PP*)	**68,01**
02757	TX 20	50	5 (PP*)	**68,01**
02758	TX 25	50	5 (PP*)	**68,01**
02759	TX 30	50	5 (PP*)	**68,01**
02760	TX 40	50	5 (PP*)	**68,01**

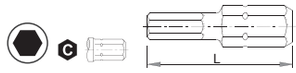
6469C6,3

Bit hexagonal 1/4" Forma C 6,3 - profil hexagon

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*



UNIOR



	Dimensiune	L	Ambalare	
602400	HX 2.5	25	3	**20,58**
602401	HX 3	25	3	**20,58**
602402	HX 4	25	3	**20,58**
602403	HX 5	25	3	**20,58**
602404	HX 6	25	3	**20,58**

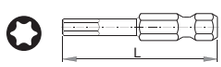
Bit hexagonal 1/4" BLUE SHOCK Forma E 6,3 - profil TORX®

- *bitul dispune o zona de torsiune studiata si alungita pentru a rezista la cupluri ridicate si socuri violente in timpul utilizarii pe o masina de insurubat cu impact*
- *duritate proiectata special pentru utilizarea pe masini de insurubat cu impact de mare putere*
- *varf ranforsat cu inel de sprijin pentru o durata de utilizare prelungita*
- *zona de torsiune este ranforsata din partea superioara si cea inferioara pentru o legatura mai puternica intre varf si corp si pentru a preveni ruperea bitului.*

BLUE SHOCK



USH GERMANY



	Dimensiune	L	Ambalare	
UUSE0063493	TX 10	50	5	**59,94**
UUSE0063494	TX 15	50	5	**59,94**
UUSE0063495	TX 20	50	5	**59,94**
UUSE0063496	TX 25	50	5	**59,94**
UUSE0063498	TX 30	50	5	**59,94**
UUSE0063499	TX 40	50	5	**59,94**

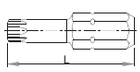
6492C8

Bit hexagonal 5/16" Forma C 8 - profil TORX®

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*



UNIOR



	Dimensiune	L	Ambalare	
605518	TX 20	30	3	**28,31**
602436	TX 25	30	3	**28,31**
602438	TX 30	30	3	**28,31**
602439	TX 40	30	3	**28,31**
602440	TX 45	30	3	**28,31**
602441	TX 50	30	3	**28,31**

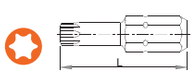
QUALITY INDUSTRY TX

Bit hexagonal 5/16" DIN 3126 - Forma C 8 - profil TORX®

- *duritate in conformitate cu norma DIN*
- *protectie optima impotriva coroziunii*



USH GERMANY



	Dimensiune	L	Ambalare	
UUSE0012596	TX 25	35	5 (A*)	**143,31**
UUSE0012598	TX 30	35	5 (A*)	**143,31**
UUSE0012599	TX 40	35	5 (A*)	**143,31**
UUSE0012600	TX 45	35	5 (A*)	**143,31**
UUSE0012601	TX 50	35	5 (A*)	**158,72**
UUSE0012602	TX 55	35	5 (A*)	**171,05**

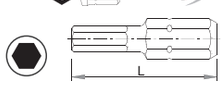
76469C6,3

Bit hexagonal 1/4" Forma C 8 - profil hexagon

- *material: aliaj special S2 (1.2381 / 73 Mo V 5 2)*
- *duritate material: 58 +/- 2 HRc*
- *in conformitate cu standardele DIN 3126 ISO 1173*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*



KRONUS Professional Quality



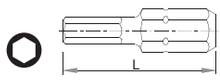
	Dimensiune	L	D	Ambalare	
70104901	HX 3	25	4.0	-	**1,41**
70105001	HX 4	25	4.0	-	**1,41**
70105101	HX 5	25	6.0	-	**1,41**
70105201	HX 6	25	6.0	-	**1,41**
900529	HX 3	25	4.0	3	**5,29**
900530	HX 4	25	4.0	3	**5,29**
900531	HX 5	25	6.0	3	**5,29**
900532	HX 6	25	6.0	3	**5,29**
70104905	HX 3	25	4.0	5	**9,69**
70105005	HX 4	25	4.0	5	**9,69**
70105105	HX 5	25	6.0	5	**9,69**
70105205	HX 6	25	6.0	5	**9,69**
70104910	HX 3	25	4.0	10	**19,38**
70105010	HX 4	25	4.0	10	**19,38**
70105110	HX 5	25	6.0	10	**19,38**
70105210	HX 6	25	6.0	10	**19,38**
70104925	HX 3	25	4.0	25	**48,45**
70105025	HX 4	25	4.0	25	**48,45**
70105125	HX 5	25	6.0	25	**48,45**
70105225	HX 6	25	6.0	25	**48,45**

1500 CR

Bit hexagonal 1/4" DIN/ISO 1173 - Forma C 6,3 - profil hexagon

- *DIN / ISO 2936*
- *cu inel indentificare*





	Dimensiune	L	Ambalare	
015072	HX 2	25	-	6,32
015073	HX 2,5	25	-	6,32
015074	HX 3	25	-	6,32
015075	HX 4	25	-	6,32
015076	HX 5	25	-	6,32
015077	HX 6	25	-	6,32

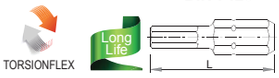
INDUSTRY HEX

Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil hexagonal

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*



DIN 7426

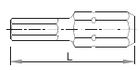


	Dimensiune	L	Ambalare	
UUSG0012069	HEX 2	25	5 (A*)	90,98
UUSG0012070	HEX 2,5	25	5 (A*)	90,98
UUSG0012071	HEX 3	25	5 (A*)	90,98
UUSG0012072	HEX 4	25	5 (A*)	90,98
UUSG0012073	HEX 5	25	5 (A*)	90,98
UUSG0012074	HEX 6	25	5 (A*)	90,98
UUSG0012075	HEX 7	25	5 (A*)	127,32

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 - profil hexagon

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



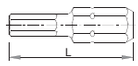


	Dimensiune	L	Ambalare	
60241	HEX 2,0	25	-	5,29
60242	HEX 2,5	25	-	5,29
60243	HEX 3,0	25	-	5,29
60244	HEX 4,0	25	-	5,29
60245	HEX 5,0	25	-	5,29
60246	HEX 6,0	25	-	5,29
60247	HEX 7,0	25	-	7,17
60248	HEX 8,0	25	-	9,17
01047	HEX 2,0	25	10 (PP*)	57,44
01048	HEX 2,5	25	10 (PP*)	57,44
01049	HEX 3,0	25	10 (PP*)	57,44
01050	HEX 4,0	25	10 (PP*)	57,44
01051	HEX 5,0	25	10 (PP*)	57,44
01052	HEX 6,0	25	10 (PP*)	57,44
01053	HEX 7,0	25	10 (PP*)	76,86
01054	HEX 8,0	25	10 (PP*)	96,27

Bit TORSION 1/4" DIN/ISO 1173 Forma C 6,3 - profil hexagon T-Rip

- *TORSION - versiune forjata pentru a se potrivi perfect la aplicatii grele (ex. lemn dur, metal)*
- *cuplu foarte bun, de aproximativ 110% peste standardul DIN*
- *DIN / ISO 2936*
- *fara acoperire*





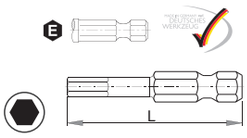
	Dimensiune	L	Ambalare	
60725	HEX 1,5 H-Rip	25	-	5,61
60726	HEX 2,0 H-Rip	25	-	5,61
60727	HEX 2,5 H-Rip	25	-	5,61
60728	HEX 3,0 H-Rip	25	-	5,61
60729	HEX 4,0 H-Rip	25	-	5,61
60730	HEX 5,0 H-Rip	25	-	5,61
60731	HEX 6,0 H-Rip	25	-	5,61
02882	HEX 1,5 H-Rip	25	10 (PP*)	59,27
02883	HEX 2,0 H-Rip	25	10 (PP*)	59,27
02884	HEX 2,5 H-Rip	25	10 (PP*)	59,27
02885	HEX 3,0 H-Rip	25	10 (PP*)	59,27
02886	HEX 4,0 H-Rip	25	10 (PP*)	59,27
02887	HEX 5,0 H-Rip	25	10 (PP*)	59,27
02888	HEX 6,0 H-Rip	25	10 (PP*)	59,27

76515E6,3

Bit cu profil hexagonal, varianta lunga

- *material: aliaj special S2 (1.2381 / 73 Mo V 5 2)*
- *duritate material: 58 +/- 2 HRc*
- *in conformitate cu standardele DIN 3126 ISO 1173*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau non-magnetica*





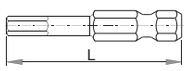
	Dimensiune	L	D	Ambalare	
70108701	HX 3	50	4.0	-	2,11
70108801	HX 4	50	4.0	-	2,11
70108901	HX 5	50	6.0	-	2,11
70109001	HX 6	50	1/4"	-	2,11
900548	HX 3	50	4.0	3	7,40
900549	HX 4	50	4.0	3	7,40
900550	HX 5	50	6.0	3	7,40
900551	HX 6	50	1/4"	3	7,40
70108705	HX 3	50	4.0	5	13,21
70108805	HX 4	50	4.0	5	13,21
70108905	HX 5	50	6.0	5	13,21
70109005	HX 6	50	1/4"	5	13,21
70108710	HX 3	50	4.0	10	26,42
70108810	HX 4	50	4.0	10	26,42
70108910	HX 5	50	6.0	10	26,42
70109010	HX 6	50	1/4"	10	26,42

6509E6,3

Bit hexagonal 1/4" Forma E 6,3 - profil hexagon

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*



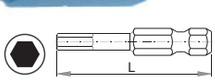


	Dimensiune	L	Ambalare	
602525	HX 2.5	50	3	29,48
602526	HX 3	50	3	29,48
602527	HX 4	50	3	29,48
602528	HX 5	50	3	29,48
602529	HX 6	50	3	29,48

Bit hexagonal 1/4" BLUE SHOCK Forma E 6,3 - profil hexagon

- *bitul dispune o zona de torsiune studiata si alungita pentru a rezista la cupluri ridicate si socuri violente in timpul utilizarii pe o masina de insurubat cu impact*
- *duritate proiectata special pentru utilizarea pe masini de insurubat cu impact de mare putere*
- *varf ranforsat cu inel de sprijin pentru o durata de utilizare prelungita*
- *zona de torsiune este ranforsata din partea superioara si cea inferioara pentru o legatura mai puternica intre varf si corp si pentru a preveni ruperea bitului.*





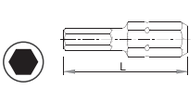
	Dimensiune	L	Ambalare	
UUSE0063471	HX 3	50	5	59,94
UUSE0063472	HX 4	50	5	59,94
UUSE0063473	HX 5	50	5	59,94
UUSE0063474	HX 6	50	5	59,94

6489C8

Bit hexagonal 5/16" Forma C 8 - profil hexagon

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*





	Dimensiune	L	Ambalare	
602431	HX 5	30	3	29,48
602432	HX 6	30	3	29,48

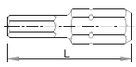
QUALITY INDUSTRY HEX

Bit hexagonal 5/16" DIN 3126 - Forma C 8 - profil hexagonal

- *duritate in conformitate cu norma DIN*
- *protectie optima impotriva coroziunii*



USH GERMANY — DIN 7426



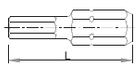
	Dimensiune	L	Ambalare	
UUSE0012571	HEX 3	30	5 (A*)	127,90
UUSE0012572	HEX 4	30	5 (A*)	127,90
UUSE0012573	HEX 5	30	5 (A*)	127,90
UUSE0012574	HEX 6	30	5 (A*)	127,90
UUSE0012576	HEX 8	30	5 (A*)	132,22
UUSE0012577	HEX 10	30	5 (A*)	171,51

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 - profil hexagon cu gaura

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



cobit tool technology — milled CNC gefrast



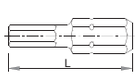
	Dimensiune	L	Ambalare	
60260	HEX BO 2,0	25	-	14,72
60261	HEX BO 2,5	25	-	14,72
60262	HEX BO 3,0	25	-	14,72
60263	HEX BO 4,0	25	-	14,72
60264	HEX BO 5,0	25	-	14,72
60265	HEX BO 6,0	25	-	14,72

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 - profil hexagon cu bila

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



cobit tool technology — milled CNC gefrast



	Dimensiune	L	Ambalare	
60266	HX 2.5	25	-	9,28
60267	HX 3	25	-	9,28
60268	HX 4	25	-	9,28
60269	HX 5	25	-	9,28
60270	HX 6	25	-	9,28

INDUSTRY SQ

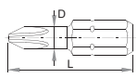
Bit hexagonal 1/4" DIN 3126 - Forma C 6,3 - profil Robertson

- *design de torsiune*
- *duritate in conformitate cu norma DIN*
- *sablat*
- *protectie optima impotriva coroziunii*



DIN 7426

USH GERMANY — TORSIONFLEX — Long Life



	Dimensiune	L	Ambalare	
UUSE0012026	R 0	25	5 (A*)	73,23
UUSE0012027	R 1	25	5 (A*)	73,23
UUSE0012028	R 2	25	5 (A*)	73,23
UUSE0012029	R 3	25	5 (A*)	73,23

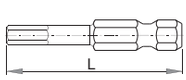
6509E6,3

Bit hexagonal 1/4" Forma E 6,3 - profil patrat

- *otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prindere magnetica sau nonmagnetica*
- *in concordanta cu standardul ISO 2351*



UNIOR

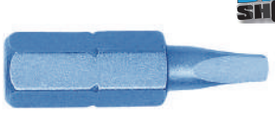


	Dimensiune	L	Ambalare	
603418	SQ 2	75	3	45,00

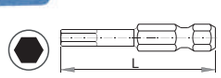
Bit hexagonal 1/4" BLUE SHOCK Forma E 6,3 - profil patrat

- *bitul dispune o zona de torsiune studiata si alungita pentru a rezista la cupluri ridicate si socuri violente in timpul utilizarii pe o masina de insurubat cu impact*
- *duritate proiectata special pentru utilizarea pe masini de insurubat cu impact de mare putere*
- *varf ranforsat cu inel de sprijin pentru o durata de utilizare prelungita*
- *zona de torsiune este ranforsata din partea superioara si cea inferioara pentru o legatura mai puternica intre varf si corp si pentru a preveni ruperea bitului.*

BLUE SHOCK



USH GERMANY



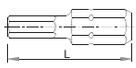
	Dimensiune	L	Ambalare	
UUSE0063417	R 1	50	5	59,94
UUSE0063418	R 2	50	5	59,94
UUSE0063419	R 3	50	5	59,94

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil Spanner

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



cobit tool technology — milled CNC gefrast



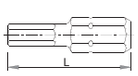
	Dimensiune	L	Ambalare	
60314	SN# 4	25	-	12,03
60315	SN# 6	25	-	12,03
60316	SN# 8	25	-	12,03
60317	SN# 10	25	-	12,03
60318	SN# 12	25	-	12,03
60319	SN# 14	25	-	12,03

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil Ribe®

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



cobit tool technology — milled CNC gefrast



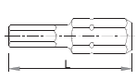
	Dimensiune	L	Ambalare	
60320	RI 4	25	-	11,81
60321	RI 5	25	-	11,81
60322	RI 6	25	-	11,81
60323	RI 7	25	-	11,81
60324	RI 8	25	-	11,81

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil Clutch

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



cobit tool technology — milled CNC gefrast



	Dimensiune	L	Ambalare	
60325	CG 3/32"	25	-	10,84
60326	CG 1/8"	25	-	10,84
60327	CG 5/32"	25	-	10,84
60328	CG 3/16"	25	-	10,84
60329	CG 1/4"	25	-	10,84

ACR® Phillips® Screw Company
ASSY® Adolf Würth GmbH & Co. KG
BITQUICK® cobit® GmbH
COBIT® cobit® GmbH
PHILLIPS® Phillips® Screw Company
POZIDRIV® Phillips® Screw Company
RIBE® Richard Bergner Verbindungstechnik GmbH & Co. KG
SIT® Adolf Würth GmbH & Co. KG
TORSONIC® cobit® GmbH
TORQ-SET® Phillips® Screw Company
TORX® Acument Intellectual Properties, LLC, Troy Mich., US
TORX® PLUS® Acument Intellectual Properties, LLC, Troy Mich., US
TRI-WING® Phillips® Screw Company
TTAP® TTAP® DRIVE AS

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil XZN spline

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60330	XZN M 4	25	-	**10,41**
60331	XZN M 5	25	-	**10,41**
60332	XZN M 6	25	-	**10,41**
60333	XZN M 8	25	-	**17,15**
60334	XZN M 10	25	-	**21,90**

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil Torq-Set®

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60298	TS # 0	25	-	**10,84**
60299	TS # 1	25	-	**10,84**
60300	TS # 2	25	-	**10,84**
60301	TS # 3	25	-	**10,84**
60302	TS # 4	25	-	**10,84**
60303	TS # 5	25	-	**10,84**
60304	TS # 6	25	-	**10,84**
60305	TS # 8	25	-	**10,84**
60306	TS # 10	25	-	**10,84**
60307	TS # 1/4"	25	-	**10,84**

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil Tri-Wing®

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60308	TW # 0	25	-	**9,87**
60309	TW # 1	25	-	**9,87**
60310	TW # 2	25	-	**9,87**
60311	TW # 3	25	-	**9,87**
60312	TW # 4	25	-	**9,87**
60313	TW # 5	25	-	**9,87**

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil Torx® TTAP®

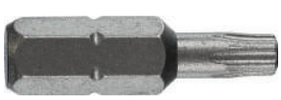
- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60021	TTAP 10	25	-	**4,96**
60022	TTAP 15	25	-	**4,96**
60023	TTAP 20	25	-	**4,96**
60024	TTAP 25	25	-	**4,96**
60025	TTAP 30	25	-	**4,96**
60026	TTAP 40	25	-	**4,96**

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil Torx® Plus®

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60219	IP 10	25	-	**6,04**
60220	IP 15	25	-	**6,04**
60221	IP 20	25	-	**6,04**
60222	IP 25	25	-	**6,04**
60223	IP 30	25	-	**6,04**
60224	IP 40	25	-	**6,04**

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil Torx® Plus® security

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60225	IPR 10	25	-	**7,71**
60226	IPR 15	25	-	**7,71**
60227	IPR 20	25	-	**7,71**
60228	IPR 25	25	-	**7,71**
60229	IPR 30	25	-	**7,71**
60230	IPR 40	25	-	**7,71**

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil Torx® Ball

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60070	TX Ball 10	25	-	**6,58**
60071	TX Ball 15	25	-	**6,58**
60072	TX Ball 20	25	-	**6,58**
60073	TX Ball 25	25	-	**6,58**
60074	TX Ball 30	25	-	**6,58**
60075	TX Ball 40	25	-	**6,58**

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil ASSY® / AW

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60293	AW 10	25	-	**6,58**
60294	AW 20	25	-	**6,58**
60295	AW 25	25	-	**6,58**
60296	AW 30	25	-	**6,58**
60297	AW 40	25	-	**6,58**

Bit STANDARD 1/4" DIN/ISO 1173 Forma C 6,3 profil Phillips cu coada redusa pentru gips-carton

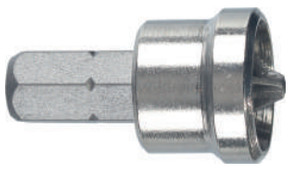
- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*

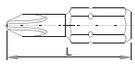


	Dimensiune	L	Ambalare	
01680	PH 2	25	-	**2,70**

Bit STANDARD 1/4" DIN/ISO 117 Forma C 6,3 - profil Phillips cu limitator pentru gips-carton

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*





	Dimensiune	L	Ambalare	
60159	PH 2	25	-	**5,50**

Bit STANDARD profil Phillips cu prindere pe filet M4

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60516	PH 1	33	-	**13,75**
60517	PH 2	33	-	**13,75**

Bit STANDARD profil Phillips cu prindere pe filet M5

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60518	PH 1	45	-	**14,29**
60519	PH 2	45	-	**14,29**

Bit STANDARD profil Pozidrive cu prindere pe filet M4

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60520	PZ 1	33	-	**13,75**
60521	PZ 2	33	-	**13,75**

Bit STANDARD profil Pozidrive cu prindere pe filet M5

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60522	PZ 1	45	-	**14,29**
60523	PZ 2	45	-	**14,29**

Bit STANDARD profil Torx® cu prindere pe filet M5

- *STANDARD - versiune frezata*
- *DIN / ISO 2936*
- *fara acoperire*



	Dimensiune	L	Ambalare	
60524	TX 08	45	-	**15,43**
60525	TX 10	45	-	**15,43**
60526	TX 15	45	-	**15,43**
60527	TX 20	45	-	**15,43**
60528	TX 25	45	-	**15,43**

6614

Bit cu profil TORX® prindere hexagonala 10 mm Forma C10



10 mm

	TORX®	L	Ambalare	
66141501030	TX 10	30	-	**9,86**
66141501530	TX 15	30	-	**9,86**
66141502030	TX 20	30	-	**9,86**
66141502530	TX 25	30	-	**9,86**
66141502730	TX 27	30	-	**9,86**
66141503030	TX 30	30	-	**9,86**
66141504030	TX 40	30	-	**9,86**
66141504530	TX 45	30	-	**9,86**
66141505030	TX 50	30	-	**11,71**
66141505530	TX 55	30	-	**13,41**
66141501075	TX 10	75	-	**14,95**
66141501575	TX 15	75	-	**14,95**
66141502075	TX 20	75	-	**14,95**
66141502575	TX 25	75	-	**14,95**
66141502775	TX 27	75	-	**14,95**
66141503075	TX 30	75	-	**14,95**
66141504075	TX 40	75	-	**14,95**
66141504575	TX 45	75	-	**14,95**
66141505075	TX 50	75	-	**16,95**
66141505575	TX 55	75	-	**19,72**

6615

Bit cu profil TORX® cu gaura (pentru pin de siguranta) prindere hexagonala 10 mm Forma C10



10 mm

	TORX®	L	Ambalare	
66151501030	TR 10	30	-	**17,57**
66151501530	TR 15	30	-	**17,57**
66151502030	TR 20	30	-	**17,57**
66151502530	TR 25	30	-	**17,57**
66151502730	TR 27	30	-	**17,57**
66151503030	TR 30	30	-	**17,57**
66151504030	TR 40	30	-	**17,57**
66151504530	TR 45	30	-	**17,57**
66151505030	TR 50	30	-	**18,95**
66151505530	TR 55	30	-	**20,34**
66151501075	TX 10	75	-	**22,50**
66151501575	TX 15	75	-	**22,50**
66151502075	TX 20	75	-	**22,50**
66151502575	TX 25	75	-	**22,50**
66151502775	TX 27	75	-	**22,50**
66151503075	TX 30	75	-	**22,50**
66151504075	TX 40	75	-	**22,50**
66151504575	TX 45	75	-	**22,50**
66151505075	TX 50	75	-	**23,89**
66151505575	TX 55	75	-	**26,35**

6624

Bit cu profil Ribe, prindere hexagonala 10 mm Forma C10



10 mm

	Ribe	L	Ambalare	
66241500430	4	30	-	**9,86**
66241500530	5	30	-	**9,86**
66241500630	6	30	-	**9,86**
66241500730	7	30	-	**9,86**
66241500830	8	30	-	**9,86**
66241500930	9	30	-	**9,86**
66241501030	10	30	-	**9,86**
66241501230	12	30	-	**9,86**
66241501330	13	30	-	**11,71**
66241501430	14	30	-	**13,41**
66241501630	16	30	-	**17,41**
66241500475	4	75	-	**14,95**
66241500575	5	75	-	**14,95**
66241500675	6	75	-	**14,95**
66241500775	7	75	-	**14,95**
66241500875	8	75	-	**14,95**
66241500975	9	75	-	**14,95**
66241501075	10	75	-	**14,95**
66241501275	12	75	-	**14,95**
66241501375	13	75	-	**17,88**
66241501475	14	75	-	**23,58**
66241501675	16	75	-	**26,66**

6616

Bit cu profil hexagonal, prindere hexagonala 10 mm Forma C10



BOHRCRAFT — 10 mm

	HEX	L	Ambalare	
66161500430	SW 4,0	30	-	9,86
66161500530	SW 5,0	30	-	9,86
66161500630	SW 6,0	30	-	9,86
66161500730	SW 7,0	30	-	9,86
66161500830	SW 8,0	30	-	9,86
66161501030	SW 10,0	30	-	9,86
66161501230	SW 12,0	30	-	10,94
66161501430	SW 14,0	30	-	16,33
66161500475	SW 4,0	75	-	14,95
66161500575	SW 5,0	75	-	14,95
66161500675	SW 6,0	75	-	14,95
66161500775	SW 7,0	75	-	14,95
66161500875	SW 8,0	75	-	14,95
66161501075	SW 10,0	75	-	14,95
66161501275	SW 12,0	75	-	19,11
66161501475	SW 14,0	75	-	26,35

6617

Bit cu profil hexagonal cu gaura (pentru pin de siguranta) prindere hexagonala 10 mm Forma C10



BOHRCRAFT — 10 mm

	HEX	L	Ambalare	
66171500430	SW 4,0	30	-	17,41
66171500530	SW 5,0	30	-	17,41
66171500630	SW 6,0	30	-	17,41
66171500730	SW 7,0	30	-	17,41
66171500830	SW 8,0	30	-	17,41
66171501030	SW 10,0	30	-	17,41
66171501230	SW 12,0	30	-	20,34
66171500475	SW 4,0	75	-	22,50
66171500575	SW 5,0	75	-	22,50
66171500675	SW 6,0	75	-	22,50
66171500775	SW 7,0	75	-	22,50
66171500875	SW 8,0	75	-	22,50
66171501075	SW 10,0	75	-	22,50
66171501275	SW 12,0	75	-	27,74

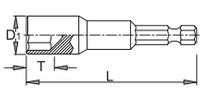
7014S

Cap tubular scurt 1/4", magnetic

- *material: crom-vanadiu*
- *capul cheii este tratat in intregime*
- *executie in concordanta cu standardul DIN 7424*



KRONUS — 1/4"



	Dimensiune	L	Ambalare	
701407	7	45	1	5,28
701406	8	45	1	5,66
701433	10	45	1	5,66
701416	13	45	1	7,22

6620

Bit cu profil XZN, prindere hexagonala 10 mm Forma C10



BOHRCRAFT — 10 mm

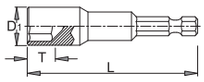
	XZN	L	Ambalare	
66201500530	M 5	30	-	9,86
66201500630	M 6	30	-	9,86
66201500830	M 8	30	-	9,86
66201501030	M 10	30	-	9,86
66201501230	M 12	30	-	10,94
66201501430	M 14	30	-	12,48
66201500575	M 5	75	-	14,95
66201500675	M 6	75	-	14,95
66201500875	M 8	75	-	14,95
66201501075	M 10	75	-	14,95
66201501275	M 12	75	-	16,64
66201501475	M 14	75	-	19,88

188.10A

Capete chei tubulare, cu magnet si prindere hexagonala 1/4" pentru masina

- *material: crom vanadiu*
- *capul cheii este tratat in intregime*
- *executie in concordanta cu standardul DIN 7424*





UNIOR

	Dimensiune	D1	L	T	
619448	8	12,5	65	3,9	16,00
618701	10	14,5	65	5	17,03
618702	13	18	65	6	18,19
618703	17	23,3	65	9,5	23,64

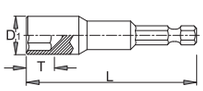
7014S

Cap tubular lung 1/4", magnetic

- *material: crom-vanadiu*
- *capul cheii este tratat in intregime*
- *executie in concordanta cu standardul DIN 7424*



KRONUS — 1/4"



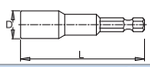
	Dimensiune	L	Ambalare	
701428	7	65	1	6,26
701430	8	65	1	6,26
701432	10	65	1	6,45
701439	13	65	1	7,82

Bit tubular 50 mm cu magnet 1/4" E 6,3

- *material: crom vanadiu*
- *lungime: 50 mm*
- *magnet permanent neodim - forta magnetica 300 g*
- *coada de antrenare 1/4" E 6,3*
- *profil hexagon interior pentru suruburi cu cap hexagonal*



cobit tool technology



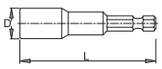
	Dimensiune	L	Ambalare	
60597	5,5	50	-	11,00
60598	6	50	-	11,00
60599	7	50	-	11,00
60600	8	50	-	11,00
60601	9	50	-	12,08
60602	10	50	-	12,67
60603	11	50	-	13,21
60604	12	50	-	13,75
60605	13	50	-	14,29
60606	17	50	-	27,61
60607	1/4"	50	-	11,00
60608	3/8"	50	-	11,00
60609	5/16"	50	-	12,08
60610	7/16"	50	-	12,67
02116	5,5	50	1 (PP*)	15,48
01425	6	50	1 (PP*)	15,48
01427	7	50	1 (PP*)	15,48
01429	8	50	1 (PP*)	15,48
01431	9	50	1 (PP*)	16,61
01432	10	50	1 (PP*)	17,15
01434	11	50	1 (PP*)	17,69
01436	12	50	1 (PP*)	18,28
01438	13	50	1 (PP*)	18,82
02822	17	50	1 (PP*)	32,14
01440	1/4"	50	1 (PP*)	15,48
01444	3/8"	50	1 (PP*)	15,48
01442	5/16"	50	1 (PP*)	16,61
01446	7/16"	50	1 (PP*)	17,15

Bit tubular de IMPACT 50 mm cu magnet; 1/4" E 6,3

- *material: otel CrMo*
- *lungime: 50 mm*
- *magnet permanent neodim - forta magnetica 300 g*
- *coada de antrenare 1/4" E 6,3*
- *profil hexagon interior pentru suruburi cu cap hexagonal*



cobit tool technology



	Dimensiune	L	Ambalare	
10030	6	50	-	23,19
10031	7	50	-	23,19
10032	8	50	-	24,32
10033	10	50	-	25,40
10034	11	50	-	25,40
10035	12	50	-	26,54
10036	13	50	-	27,08
10037	1/4"	50	-	23,19
10038	3/8"	50	-	25,40
10039	5/16"	50	-	24,32
02827	6	50	1 (PP*)	27,67
02828	7	50	1 (PP*)	27,67
02829	8	50	1 (PP*)	28,80
02830	10	50	1 (PP*)	29,93
02831	11	50	1 (PP*)	29,93
02832	12	50	1 (PP*)	31,01
02833	13	50	1 (PP*)	31,61
02834	1/4"	50	1 (PP*)	27,67
02835	3/8"	50	1 (PP*)	29,93
02836	5/16"	50	1 (PP*)	28,80

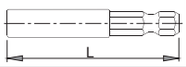
6715E6,3

Adaptor magnetic 1/4"

- *material corp: otel*
- *realizat prin forjare*
- *magnetic*



UNIOR E



	Dimensiune	L	Ambalare	
624053	E6,3 (1/4")	50	1	**16,15**
603028	E6,3 (1/4")	75	1	**25,88**

BITHOLDER

Adaptor magnetic 1/4"

- *material corp: otel inoxidabil*
- *realizat prin forjare*
- *magnetic*



USH GERMANY 1/4"- E 6,3 1/4" Magnet

	Ø	L	Ambalare	
UUSA0015008[1]	9,6	51	1 (A*)	**6,85**
UUSA0010052	9,6	74	1 (A*)	**18,34**
UUSZ0010105	9,6	100	1 (A*)	**47,46**

([1]) *fara inel*

Adaptor magnetic standard 1/4" DIN/ISO 1173 - E 6,3

- *corp din otel inoxidabil*
- *fara inel de retinere*
- *magnet neodim 6x4 mm - forta magnetica 300 g*
- *coada antrenare 1/4" E 6,3 (material 51CrV4)*
- *pentru biti cu coada hexagonala 1/4" C 6,3 si E 6,3*



cobit tool technology



	Dimensiune	L	Ambalare	
60592	1/4"	50	-	**13,97**
60594	1/4"	75	-	**16,07**
01478	1/4"	50	1 (PP*)	**14,99**
02079	1/4"	75	1 (PP*)	**20,39**

Adaptor magnetic standard 1/4" DIN/ISO 1173 - E 6,3

- *corp din otel inoxidabil*
- *cu inel C de retinere*
- *magnet neodim 6x4 mm - forta magnetica 300 g*
- *coada antrenare 1/4" E 6,3 (material 51CrV4)*
- *pentru biti cu coada hexagonala 1/4" C 6,3 si E 6,3*



cobit tool technology



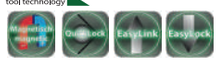
	Dimensiune	L	Ambalare	
60588	1/4"	50	-	**16,56**
60590	1/4"	75	-	**22,11**
60591	1/4"	150		**33,17**
01491	1/4"	50	1 (PP*)	**21,03**
01490	1/4"	75	1 (PP*)	**26,75**
01508	1/4"	150	1 (PP*)	**37,70**

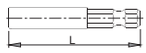
Adaptor magnetic Quick Lock EasyLink & EasyLock 1/4" DIN/ISO 1173 - E 6,3

- *corp din otel inoxidabil*
- *sistem de blocare rapida cu bila - operare cu o singura mana*
- *magnet neodim 6x4 mm - forta magnetica 300 g*
- *coada antrenare 1/4" E 6,3 (material 51CrV4)*
- *pentru biti cu coada hexagonala 1/4" C 6,3 si E 6,3*



cobit tool technology





	Dimensiune	L	Ambalare	
02261	1/4"	60	-	**43,79**
02818	1/4"	60	1 (PP*)	**48,22**

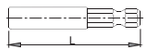
Adaptor magnetic Quick Lock EasyLink & EasyLock 1/4" DIN/ISO 1173 - E 6,3

- *corp din otel inoxidabil*
- *sistem de blocare rapida cu bila - operare cu o singura mana*
- *magnet neodim 6x4 mm - forta magnetica 300 g*
- *coada antrenare 1/4" E 6,3 (material 51CrV4)*
- *pentru biti cu coada hexagonala 1/4" C 6,3 si E 6,3*



cobit tool technology





	Dimensiune	L	Ambalare	
02655	1/4"	80	-	**55,39**
02820	1/4"	80	1 (PP*)	**59,87**

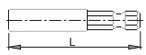
Adaptor magnetic Quick Lock EasyLink & EasyLock 1/4" DIN/ISO 1173 - E 6,3

- *corp din otel inoxidabil*
- *sistem de blocare rapida cu bila - operare cu o singura mana*
- *manson cu rotire libera*
- *magnet neodim 6x4 mm - forta magnetica 300 g*
- *coada antrenare 1/4" E 6,3 (material 51CrV4)*
- *pentru biti cu coada hexagonala 1/4" C 6,3 si E 6,3*



cobit tool technology

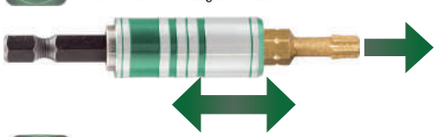




	Dimensiune	L	Ambalare	
02657	1/4"	150	1 (blister)	**66,56**



Functie EasyLock *Introduceti bitul fara actionarea mansonului adaptorului magnetic; bitul este blocat = actionare cu o singura mana*



Functie EasyLink *Actionati mansonul adaptorului magnetic; bitul este deblocat si impins inainte = actionare cu o singura mana*

Adaptor magnetic Quick Lock EasyLink & EasyLock 1/4" si inel magnetic DIN/ISO 1173 - E 6,3

- *corp din otel inoxidabil*
- *sistem de blocare rapida cu bila - operare cu o singura mana*
- *magnet neodim 6x4 mm - forta magnetica 300 g*
- *magnet inel neodim - forta magnetica 1.000 g*
- *coada antrenare 1/4" E 6,3 (material 51CrV4)*
- *pentru biti cu coada hexagonala 1/4" C 6,3 si E 6,3*



cobit tool technology



	Dimensiune	L	Ambalare	
02371	1/4"	60	-	**49,84**
02373	1/4"	60	1 (PP*)	**54,31**



Inel magnetic cu o forta de tragere de 1.000 kg



surubul se potriveste plan pe inelul magnetic, cu o singura mana; surubul si magnetul se conecteaza puternic

Adaptor magnetic Quick Lock EasyLink & EasyLock 1/4" si inel magnetic DIN/ISO 1173 - E 6,3

- *corp din otel inoxidabil*
- *sistem de blocare rapida cu bila - operare cu o singura mana*
- *magnet neodim 6x4 mm - forta magnetica 300 g*
- *magnet inel neodim - forta magnetica 1.000 g*
- *manson cu rotire libera*
- *coada antrenare 1/4" E 6,3 (material 51CrV4)*
- *pentru biti cu coada hexagonala 1/4" C 6,3 si E 6,3*



mansonul cu rotire libera permite gidarea insurubatii si asigura un nivel inalt de precizie

cobit tool technology



	Dimensiune	L	Ambalare	
02372	1/4"	300	1 (blister)	**104,85**

BITHOLDER

Adaptor magnetic 1/4" compatibil SDS-PLUS

- *material corp: otel inoxidabil*
- *realizat prin forjare*
- *magnetic*



USH GERMANY | 10 mm SDS-PLUS | 1/4" | Magnet

	Ø	L	Ambalare	
UUSA0010288	11,1	78	1 (A*)	43,30

BITHOLDER

Adaptor magnetic 1/4" compatibil Desoutter

- *material corp: otel inoxidabil*
- *realizat prin forjare*
- *magnetic*



USH GERMANY | 5/16" Desoutter | 1/4" | Magnet

	Ø	L	Ambalare	
UUSA0010256	11,1	70	1 (A*)	72,68

BITHOLDER

Adaptor magnetic 1/4" compatibil 5.5 mm Bosch

- *material corp: otel inoxidabil*
- *realizat prin forjare*
- *magnetic*



USH GERMANY | 5.5 mm BOSCH | 1/4" | Magnet

	Ø	L	Ambalare	
UUSA0010060	9,6	72	1 (A*)	56,64

FOX II

Adaptor magnetic 1/4" cu prindere si eliberare rapida

- *sistem de prindere si eliberare rapida*
- *realizat prin forjare*
- *magnetic*



USH GERMANY | 1/4"- E 6,3 | 1/4" | Magnet

	Ø	L	Ambalare	
UUSA0010492	-	74	1 (A*)	49,32

FOX II

Adaptor magnetic 1/4" cu prindere si eliberare rapida compatibil SDS-PLUS

- *sistem de prindere si eliberare rapida*
- *realizat prin forjare*
- *magnetic*



USH GERMANY | 10 mm SDS-PLUS | 1/4" | Magnet

	Ø	L	Ambalare	
UUSA0010498	-	80	1 (A*)	64, 57

SPACER

Adaptor magnetic 1/4" cu sistem de reglare al adancimii

- *sistem de reglare al adancimii in functie de aplicatie*
- *realizat prin forjare*
- *magnetic*



USH GERMANY | 1/4"- E 6,3 | 1/4" | Magnet

	Ø	L	Ambalare	
UUSA0015018	-	80	1 (A*)	60,41

SHORTY

Adaptor magnetic 1/4" scurt

- *ideal pentru aplicatii in locuri cu acces limitat*
- *magnetic*



1/4"- E 6,3 | 1/4" | Magnet

	Ø	L	Ambalare	
UUSA0011150	9,6	35	1 (A*)	23,58

Adaptor 1/4" D 6,3

- *material:crom vanadium*
- *capul cheii este tratat in intregime*
- *conform cu standardul DIN 7428*



UNIOR | 1/4" | 3/8" | 1/2"

	Dimensiune	L	Ambalare	
604531	1/4" ○ 1/4" □	50	-	15,86
616808	1/4" ○ 3/8" □	50	-	39,60
616809	1/4" ○ 1/2" □	50	-	45,00

Adaptor QuickLock 1/4" D 6,3

- *cea mai buna si mai sigura solutie*
- *elimina toate dezavantajele cunoscute*
- *economiseste timp, sporeste siguranta lucrului*
- *in conformitate cu reglementarile de siguranta si sanatate*



cobit tool technology

	Dimensiune	L	Ambalare	
02474	1/4" ○ 1/4" □	75	1 (blister)	44,33
02475	1/4" ○ 3/8" □	75	1 (blister)	49,89
02476	1/4" ○ 1/2" □	75	1 (blister)	55,44

Adaptor cu pin 1/4" D 6,3

- *varianta cu pin retractabil*
- *elimina toate dezavantajele cunoscute*
- *economiseste timp, sporeste siguranta lucrului*
- *in conformitate cu reglementarile de siguranta si sanatate*



cobit tool technology

	Dimensiune	L	Ambalare	
60564	1/4" ○ 1/4" □	50	-	14,62
60565	1/4" ○ 3/8" □	50	-	15,43
60566	1/4" ○ 1/2" □	50	-	22,11
02815	1/4" ○ 1/4" □	50	3 (PP*)	48,22
02816	1/4" ○ 3/8" □	50	3 (PP*)	51,02
02817	1/4" ○ 1/2" □	50	3 (PP*)	70,98

Adaptor patrat interior - hexagon interior QuickLock

- *economiseste timp, sporeste siguranta lucrului*
- *in conformitate cu reglementarile de siguranta si sanatate*



cobit tool technology

	Dimensiune	L	Ambalare	
60570	1/4" ■ 1/4" ○	38	-	61,00
60571	3/8" ■ 1/4" ○	50	-	72,06
60572	3/8" ■ 5/16" ○	50	-	69,31
60573	1/2" ■ 1/4" ○	55	-	83,11

Adaptor patrat interior - hexagon interior magnetic

- *economiseste timp, sporeste siguranta lucrului*
- *in conformitate cu reglementarile de siguranta si sanatate*



cobit tool technology





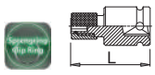
	Dimensiune	L	Ambalare	
60574	1/4" ▢ 1/4" ○	25	-	37,70
60575	1/4" ▢ 5/16" ○	30	-	38,56

Adaptor patrat interior - hexagon interior cu inel retentie C

- *economiseste timp, sporeste siguranta lucrului*
- *in conformitate cu reglementarile de siguranta si sanatate*



cobit tool technology



	Dimensiune	L	Ambalare	
60576	3/8" ▢ 1/4" ○	38	-	49,89
60577	3/8" ▢ 5/16" ○	50	-	60,95
60578	1/2" ▢ 1/4" ○	50	-	60,95
60579	1/2" ▢ 5/16" ○	55	-	77,61

188.13

Adaptor pentru biti cu prindere hexagonala de 10mm

- *material: crom vanadiu*
- *capul cheii este tratat in intregime*



UNIOR

	Dimensiune	L	Ambalare	
620858	10 mm ⬢ 1/4" ○	-	-	11,87
620859	10 mm ⬢ 5/16" ○	-	-	13,38

6645

Adaptor cu patrat 3/8" si 1/2" pentru hexagon 10 mm



BOC BOHRCRAFT

Pentru: 10 mm ⬢ | Antrenare: Patrat ■

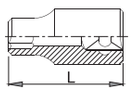
	Dimensiune	L	Ambalare	
66451501210	3/8" ▢ 10 mm ○	-	-	19,88
66451503810	1/2" ▢ 10 mm ○	-	-	17,72

6762.2

Adaptor 1/2" - 5/16"



UNIOR



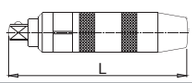
	Dimensiune	L	Ambalare	
605063	1/2" ▢ 5/16" ○	37	-	21,70

6762.1

Surubelnita de impact 5/16”



UNIOR



		L	Ambalare	
605062	1/2”	144	1	121,42

ALL-IN-ONE

Surubelnita port-bit echipata

- *functie de clichet reversibil*
- *tija telescopica 195-280 mm*
- *magazie pentru 8 biti*
- *maner ergonomic*



USH GERMANY — 1/4" — Magnet

	Componenta set	
U42020-192-267	8 piese	67,67
PH1-PH2-PZ1-PZ2 T15-T20-T25-T30		

U0014010

Maner scurt port-bit

- *maner ergonomic*



USH GERMANY — 1/4" — Magnet

	L	
U0014010	130	39,66

U0014015

Maner lung port-bit

- *maner ergonomic*



USH GERMANY — 1/4" — Magnet

	L	
U0014015	270	46,41

U0014012

Maner lung flexibil port-bit

- *maner ergonomic*



USH GERMANY — 1/4" — Magnet

	L	
U0014012	270	57,21

U0014030

Maner in T port-bit

- *maner ergonomic*



USH GERMANY — 1/4" — Magnet

	L	
U0014030	190	37,83

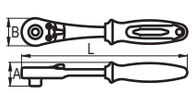
188.1/1BBI

Antrenor cu clichet pentru biti

- *material: otel special pentru scule*
- *corp forjat*
- *tratament termic total*
- *finisare: cromaare conform standard ISO 1456: 2009*
- *maner ergonomic bimaterial*
- *pentru biti de 6,3 mm*



UNIOR



		L	Ambalare	
625355	6,3	157	1	98,94

6762

Set surubelnita de impact

- *Dimensiunea cutiei : 197 x 105 x 38*



UNIOR

Componenta set		
605061	14 piese	324,46

6480C8 (1.2 x 6.5 x 41, 1.6 x 8.0 x 41, 2.0 x 12.0 x 41), **6483C8** (PH 2, PH 3), **6484C8** (PH 4), **6489C8** (5, 6), **6492C8** (TX 25, TX 30, TX 40, TX 20), **6762.1** (1/2" x 144), **6762.2** (1/2" - 5/16")

6778FBS1

Set de biti 11 piese



UNIOR

Componenta set		
624050	11 piese	80,26

6460C6,3 (0.8 x 5.5, 1.2 x 6.5), **6463C6,3** (PH 1, PH 2, PH 3), **6466C6,3** (PZ1, PZ 2, PZ 3), **6715E6,3** (E6.3(1/4")

6778FBS2

Set de biti 11 piese



UNIOR

Componenta set		
624051	11 piese	86,93

6463C6,3 (PH 1, PH 2, PH 3), **6466C6,3** (PZ 1, PZ 2, PZ 3), **6472C6,3** (TX15, TX 20, TX 25, TX 30), **6715E6,3** (E6.3(1/4")

6778FBS3

Set de biti 11 piese



UNIOR

Componenta set		
624052	11 piese	148,08

6463TINC6,3 (PH 1, PH 2, PH 3), **6466TINC6,3** (PZ 1, PZ 2, PZ 3), **6715E6,3** (E6.3(1/4")

6776PB21

Set de biti 21 piese

- *Dimensiunea cutiei : 145 x 85 x 40*



UNIOR

Componenta set		
621650	21 piese	192,73

6460C6,3 (0.5 x 4.0, 1.2 x 6.5), **6466C6,3** (PZ 1, PZ 2, PZ 3), **6472C6,3** (TX 8, TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX30, TX 40), **6469C6,3** (3, 4, 5, 6), **6463C6,3** (PH 1, PH 2), **6715E6,3** (E6.3 (1/4")

701791

Set capete tubulare 7 / 8 / 10 / 13 mm 1/4" - 38 mm

- *material: crom-vanadiu*
- *lungime: 38 mm*



Componenta set		
701791	4 piese	12,71

7, 8, 10, 13, mm

701663

Set de biti 31 piese

- *material: S2*



KRONUS®

Componenta set		
701663	31 piese	53,29

PH1, 3xPH2, PH3
PZ1, 3xPZ2, PZ3
T10, T15, 3xT20, 3xT25, T27, 2xT40
HX3, HX4, HX5, HX6
SL4.5, SL4.5, SL6.5
adaptor magnetic 60 mm

701507

Set de biti 100 piese

- *material: CrV*



KRONUS®

Componenta set		
701507	100 piese	106,65

PH 0x25, PH 1x25, 5 x PH 2x25, PH 3x25
PZ 0x25, PZ 1x25, 5 x PZ 2x25, PZ 3x25
SQ 0x25, SQ 1x25, SQ 2x25, SQ 3x25
TX 8, 10, 15, 20, 25, 27, 30, 40, 45
Clutch 1, 2, 3
(2x) HX 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8
SL 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8
TRI-WING® 1, 2, 3, 4
XZN M5, M6, M8
TORQ-SET® 6, 8, 10
Spanner #0, 1, 2, 3
TORX® cu gaura TX 8, 10, 15, 20, 25, 27, 30, 40, 45
HEX cu gaura (2x) HX 2, 2.5, 3, 4, 5, 6
TRI-WING® 1, 2, 3, 4
Adaptoare 1/4 - 1/4"
Adaptor 1/4"-C6.3
Adaptor tip "Y"
Adaptor magnetic 1/4"
Prelungitor 1/4" 50 mm

KL-32 Allround

Trusa biti 32 piese

• *1/4" (C 6,3 mm)*



	Dimensiune	Ambalare	
019017	32 piese	1	**121,74**

adaptor: 1/4" C-6,3 - 1/4" x 25
PH: 1x PH 1; 2x PH 2; 1x PH 3
PZ: 1x PZ 1; 2x PZ 2; 1x PZ 3
SL (lat): 1x Sl. 0,6x4,5; 1x Sl. 1,2x6,5
Hex: 1x Hex 3; 1x Hex 4; 1x Hex 5; 1x Hex 6
TX: 1x TX 10; 2x TX 15; 2x TX 20; 2x TX 25; 1x TX 27; 1x TX 30; 1x TX 40
TX-Tamper: 1x 10; 15; 20; 25; 30; 40

KL-34 701

Trusa biti si tubulare 34 piese

• *1/4" (C 6,3 mm)*



	Dimensiune	Ambalare	
070801	34 piese	1	**614,85**

capete tubulare de impact cu perete subtire SW: 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13
PH: 1; 2; 3
PZ : 1; 2; 3
SL (lat): 0,6x4,5; 0,8x5,5; 1,2x6,5
TX Tamper: 10; 15; 20; 25; 27; 30; 40
prelungitor cu cap sferic
antrenor cu clichet
adaptor biti quick-release

KL-6 620

Trusa biti tubulari cu magnet 6 piese

• *1/4" (E 6,3 mm)*



	Dimensiune	Ambalare	
060801	6 piese	1	**198,79**

capete tubulare cu magnet:
SW 7, 8, 3/8", 10, 12, 13

K-Line

cutii din plastic stivuibile





KL-60 Allround

Trusa biti 60 piese

• *1/4" (C 6,3 mm)*



	Dimensiune	Ambalare	
019026	60 piese	1	**260,43**

adaptor biti quick-release cu magnet
adaptor biti cu magnet
PH: 3x PH 1; 3x PH 2; 3x PH 3
PZ: 3x PZ 1; 3x PZ 3; 3x PZ 3
SL (lat): 1x Sl. 0,6x3,5; 2x 0,6x4,5; 1x 0,8x5,5; 1x 1,2x6,5
Hex: 2x Hex 4; 2x Hex 5; 2x Hex 6; 2x Hex 8
TX: 3x TX 10; TX 15; TX 20; TX 25; TX 30; TX 40; 2x TX 27
TX-Tamper: 1x 10; 15; 20; 25; 30; 40

WT-12 Wood

Trusa pentru tamplarie si montaj acoperisuri

• *1/4" (C 6,3 mm)*



	Dimensiune	Ambalare	
019028	12 piese	1	**531,64**

biti tubulari cu inel de retinere: SW 7, SW 8, SW 3/8, SW 10
PH 2 x 152, PZ 2 x 152; TX 20 x 152, TX 25 x 152, TX 30 x 152
adaptor biti 1/2" - F 6,3 (1000 SWH 45)
adaptor combinat 1/4" E 6,3 - D 6,3 si F 6,3 (840-2)
adaptor 1/4" E 6,3 - 1/2" (330-9 mK)

TP-34 Allround

Trusa biti si accesorii 34 piese

• biti profesionali cu inel colorat 1/4" (C 6,3 mm)



ASW

	Dimensiune	Ambalare	
019050	34 piese	1	**768,95**

capete chei tubulare cu pereti subtiri SW 4,5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13
biti: C 6.3 x 25 mm
PH 1 / 2 / 3
PZ 1 / 2
SL 0,6x4,5 / 0,8x5,5 / 1,2x6,5
HX 4 / 5 / 6 / 8
TX BO 10 / 15 / 20 / 25 / 27 / 30 / 40
antrenor cu clichet reversibil 1/4"
adaptor Vario 1/4"
adaptor cu schimbare rapida
adaptor 1/4 "C 6.3

038136

Trusa biti si accesorii 10 piese

• biti CON Torsion, 1/4" C 6,3



wekador

	Dimensiune	Ambalare	
038136	10 piese	1	**61,49**

biti CON Torsion, 1/4" C 6,3
PH 1, PH 2, PH 3
PZ 1, PZ 2, PZ 3
SL 0,6 x 4,5, 0,8 x 5,5, 1,2 x 6,5
adaptor magnetic 58 mm



wekador Driven by Quality

wekador Expozitor truse biti CaBo

Aktion 32

Trusa biti si accesorii 32 piese

• biti profesionali cu inel colorat 1/4" (C 6,3 mm)



ASW

	Dimensiune	Ambalare	
995000	32 piese	1	**75,51**

Adaptor magnetic pentru biti Quick Release (C6,3)
biti profesionali cu inel colorat:
SL 4,5 / SL 5,5 / SL 6,5
PH 1 / PH 2 / PH 2 / PH 3
PZ 1 / PZ 2 / PZ 2 / PZ 3
TX 10 / TX 15 / TX 20 / TX 20 / TX 25 / TX 25 / TX 30 / TX 30 / TX 40
TXBo 10 / TXBo 15 / TXBo 20 / TXBo 25 / TXBo 27 / TXBo 30 / TXBo 40
HX 3 / HX 4 / HX 5 / HX 6

038137

Trusa biti si accesorii 10 piese

• biti CON Torsion, 1/4" C 6,3



wekador

	Dimensiune	Ambalare	
038137	10 piese	1	**69,19**

biti CON Torsion, 1/4" C 6,3
TX 08, 10, 15, 20, 25, 27, 30, 40
adaptor magnetic 58 mm

CaBo-28-5-00

Trusa biti si accesorii 28 piese

• bits CON, 18 mm, 1/4" C 6,3



wekador

	Dimensiune	Ambalare	
037215	28 piese	1	**121,74**

biti CON, 18 mm, 1/4" C 6,3
27 Bits PH, PZ, Tx, Hex
adaptor magnetic 47 mm

KL-31 Security

Trusa biti si accesorii 31 piese

• biti 1/4" (C 6,3 mm)



ASW

	Dimensiune	Ambalare	
019029	31 piese	1	**245,02**

biti Spanner 4, 6, 8 si 50 mm
biti TX BO 10, 15, 20, 25, 27, 30 si 50 mm
biti Tri.Wing 1, 2, 3, si 50 mm
biti Torq.Set 6, 8, 10 si 50 mm
biti PH 1, 2, 3 si 25 mm
biti RO 0, 1, 2 si 25 mm
biti HX BO 2, 2,5, 3 si 25 mm
biti HX 4, 5, 6 si 25 mm
biti TX BO 7, 8, 9 si 25 mm
antrenor pentru biti

161181-020970-ZrN

Trusa biti si accesorii 10 piese

• biti TIN-ZRN Torsion, 1/4" C 6,3



wekador

	Dimensiune	Ambalare	
029593	10 piese	1	**89,22**

biti TIN-ZRN Torsion, 1/4" C 6,3
PH 1, PH 2, PH 3
PZ 1, PZ 2, PZ 3
Tx 15, 20, 25
adaptor magnetic 58 mm

CaBo-15-5-00

Trusa biti si accesorii 14 piese

• biti CON, 18 mm, 1/4" C 6,3



wekador

	Dimensiune	Ambalare	
037214	14 piese	1	**229,61**

biti CON, 18 mm, 1/4" C 6,3
13 Bits PH, PZ, Tx, Hex
adaptor magnetic 47 mm
Antrenor cu clichet 85 mm, 72 dinti

TB-12-5-06

Trusa biti si accesorii 12 piese

- *1/4" (C 6,3 mm)*



wekador

Dimensiune	Ambalare	
037209 12 piese	1	198,79

PH: 1; 2
PZ : 1; 2
TX : 10; 15; 20; 25; 30; 40
antrenor cu clichet 72 dinti 1/4" x 84 mm
adaptor biti 1/4" x 51 mm

TB-12-2-06

Trusa biti si accesorii 12 piese

- *ZrN - Zircon-Nitrid*
- *1/4" (C 6,3 mm)*



wekador

Dimensiune	Ambalare	
037211 12 piese	1	229,61

PH: 1; 2
PZ : 1; 2
TX : 10; 15; 20; 25; 30; 40
antrenor cu clichet 72 dinti 1/4" x 84 mm
adaptor biti 1/4" x 51 mm

TB-12-1-06

Trusa biti si accesorii 12 piese

- *DLC - Diamond*
- *1/4" (C 6,3 mm)*



wekador

Dimensiune	Ambalare	
037210 12 piese	1	275,84

PH: 1; 2
PZ : 1; 2
TX : 10; 15; 20; 25; 30; 40
antrenor cu clichet 72 dinti 1/4" x 84 mm
adaptor biti 1/4" x 51 mm

U0006000

Set biti 7 piese



USH GERMANY

Componenta set	
U0006000 7 piese	27,23

1 adaptor magnetic standard din otel inoxidabil 1/4"
biti industry:
PH 1, PH 2, PZ 1, PZ 2,
SL 0.8 x 5.5 - SL 1.2 x 6.5

U0006040

Set biti 7 piese



USH GERMANY

Componenta set	
U0006040 7 piese	24,95

1 adaptor magnetic standard din otel inoxidabil 1/4"
biti industry:
PH 1, PH 2, PH 3, PZ 1, PZ 2, PZ 3

U0007020

Set biti 12 piese



USH GERMANY

Componenta set	
U0007020 12 piese	54,07

1 adaptor magnetic standard din otel inoxidabil 1/4" biti industry:
T 10, T 15 (x2), T 20 (x2), T 25 (x2),
T 27, T 30 (x2), T 40

U0006020

Set biti 7 piese



USH GERMANY

Componenta set	
U0006020 7 piese	35,15

1 adaptor magnetic standard din otel inoxidabil 1/4"
biti industry:
T 10, T 15, T 20, T 25, T 30, T 40

U0007000

Set biti 12 piese



USH GERMANY

Componenta set	
U0007000 12 piese	39,40

1 adaptor magnetic standard din otel inoxidabil 1/4"
biti industry:
PH 1, 2 x PH 2, PH 3
PZ 1, 2 x PZ 2, PZ 3
SL 0.6 x 4.5 - SL 0.8 x 5.5 - SL 1.2 x 6.5

U0006908

Set biti 31 piese



USH GERMANY

Componenta set	
U0006908 31 piese	169,35

1 adaptor magnetic standard din otel inoxidabil 1/4"
biti industry:
Torx Tamper T 8, 9, 10, 15, 20, 25, 27, 30, 40
Hex tamper SW 3,0 - 4,0 - 5,0 - 6,0
Spanner 4 - 6 - 8 - 10
Square 0 - 1 - 2 - 3
Tri-wing® 1 - 2 - 3 - 4 - 5
Torq set 5 - 6 - 8 - 10

U0004920

Set biti 80 piese



	Componenta set	
U0004920	80 piese	**810,56**

1 adaptor magnetic FOX II 1/4"
1 surubelnita port-bit echipata cu 8 biti
(PH 1, PH 2, PZ 1, PZ 2, Torx T 15, T 20, T 25, T 30)
biti Industry:
SL 0.5x3.0 - 0.6x4.5 - 0.8x5.5 (x2) - 1.2x6.5 - 1,6x8,0
PH 0 -1 - 2(x4) - 3(x2)
PZ 1 - 2(x4) - 3(x2)
TX 10 - 15 - 20(x2)- 25(x2) - 27 - 30 - 40
HEX 2.0 - 2.5 - 3.0 - 4.0 - 5.0 - 6.0 - 7.0 - 8.0
TW 1 - 2 - 3 - 4 - 5
TS 5 - 6 - 8 - 10
Square 0 - 1 - 2 - 3
TX Tamper 10 - 15 - 20 - 25 - 30 - 40
HEX Tamper 3.0 - 4.0 - 5.0 - 6.0
Spanner 4 - 6 - 8 - 10 / TX 05 - 06 - 07 - 08 - 09

U0004320

Set biti 45 piese



	Componenta set	
U0004320	45 piese	**406,68**

1 surubelnita cu clichet reversibil 1/4"
1 adaptor cu patrat interior de 1/4"
si hexagon interior pentru biti C 6,3
1x 1/4" square adaptor on hexagon E6,3 -50mm
1 adaptor magnetic FOX II 1/4"
1 surubelnita port-bit echipata cu 8 biti
(Ph 1, Ph 2, Pz 1, Pz 2, Torx T 15, T 20, T 25, T 30)
biti Industry:
SL 0,5x3,0-0,6x4,5-0,8x5,5-1,0x5,5-1,2x6,5-1,6x8,0
PH 1(x2) - 2(x2) - 3(x2)
PZ 1(x2) - 2(x2) - 3(x2)
HEX 2,5-3,0-4,0-5,0-6,0-7,0
TORX 10-15-20-25-30-40
SW 5,6,7,8,9,10,11,12,13,14 (tubulare de impact)

05000

Trusa 7 biti si accesorii Torsion Diamant - IMPACT



	Dimensiune	Ambalare	
05000	7 piese	1	**88,67**

6 biti - 1/4" C 6,3 - 25mm
TORSION - diamond - TiN CVD - IMPACT: cate o bucata:
1x PH 1; PH 2; PZ 1; PZ 2; TX 20; TX 25
1 prelungitor biti - 1/4" E 6,3 - 54 mm: magnetic

05003

Trusa 7 biti si accesorii Diamant



	Dimensiune	Ambalare	
05003	7 piese	1	**49,84**

6 biti - 1/4" C 6,3 - 25mm
TiN CVD: cate o bucata:
1x PH 1; PH 2; PZ 1; PZ 2; TX 20; TX 25
1 prelungitor biti - 1/4" E 6,3 - 50 mm: magnetic

02075

Trusa 32 biti si accesorii Allrounder cu inel de identificare



	Dimensiune	Ambalare	
02075	32 piese	1	**86,19**

30 biti - 1/4" C 6,3 - 25 mm - cu inel colorat S2 - sablati - uleiati:
CR portocaliu: 1x 0,6 x 3,5; 1x 0,6 x 4,5; 1x 1,0 x 5,5; 1x 1,2 x 6,5
CR albastru: 1x PZ 1; 2x PZ 2; 1x PZ 3
CR rosu: 1x PH 1; 2x PH 2; 1x PH 3
CR portocaliu deschis: HEX 3; HEX 4; HEX 5; HEX 6
CR galben: 1x TX 10; 1x TX 15; 1x TX 20; 1x TX 25; 1x TX 27; 1x TX 30; 1x TX 40
CR albastru inchis: 1x TX BO 10; 1x TX BO 15; 1x TX BO 20; 1x TX BO 25; 1x TX BO 27; 1x TX BO 30; 1x TX BO 40
1 prelungitor biti - 1/4" E 6,3 - 65 mm QuickLock - magnetic
1 adaptor - 1/4" C 6,3 x 1/4" patrat interior - 25 mm - cu bila

02222

Trusa 50 biti, burghie si accesorii cu inel de identificare



	Dimensiune	Ambalare	
02222	50 piese	1	**277,38**

40 bit - 1/4" C 6,3 - 25 mm - cu inel colorat S2 - sablati- uleiati:
CR albastru: 2x PZ 1; 5x PZ 2; 1x PZ 3
CR rosu: 1x PH 1; 2x PH 2; 1x PH 3
CR galben: 3x TX 10; 3x TX 15; 5x TX 20; 3x TX 25; 1x TX 27; 3x TX 30; 3x TX 40
CR albastru inchis: 1x TX BO 10; 1x TX BO 15; 1x TX BO 20; 1x TX BO 25; 1x TX BO 27; 1x TX BO 30; 1x TX BO 40
4 burghie HSS pentru metal - 1/4" E 6,3
3 x 61 mm; 4 x 75 mm; 5 x 86 mm; 6 x 93 mm
4 burghie HSS pentru lemn - 1/4" E 6,3
3 x 61mm; 4 x 75mm; 5 x 86mm; 6 x 93mm
1 tesitor HSS - 1/4" C 6,3 x 12,4 - 25 mm
1 prelungitor biti - 1/4" E 6,3 - 65 mm QuickLock - magnetic

05002

Trusa 7 biti si accesorii Torsion - IMPACT



	Dimensiune	Ambalare	
05002	7 piese	1	**49,84**

6 biti - 1/4" C 6,3 - 25mm
TORSION - IMPACT: cate o bucata:
1x PH 1; PH 2; PZ 1; PZ 2; TX 20; TX 25
1 prelungitor IMPACT biti - 1/4" E 6,3 - 54 mm: magnetic cu inel C

05005

Trusa 7 biti si accesorii Torsion



	Dimensiune	Ambalare	
05005	7 piese	1	30,96

6 biti - 1/4“ C 6,3 - 25mm
TORSION: cate o bucata:
1x PH 1; PH 2; PZ 1; PZ 2; TX 20; TX 25
1 prelungitor biti - 1/4“ E 6,3 - 50 mm: magnetic

05018

Trusa 10 biti si accesorii Torsion Diamant - IMPACT



	Dimensiune	Ambalare	
05018	10 piese	1	110,89

9 biti - 1/4“ C 6,3 - 25mm
TORSION - diamond - TiN CVD - IMPACT: cate o bucata:
1x PH 1; PH 2; PH 3; PZ 1; PZ 2; PZ 3; TX 20; TX 25; TX 30
1 prelungitor biti - 1/4“ E 6,3 - 54 mm: magnetic cu inel C

05019

Trusa 10 biti si accesorii Torsion - IMPACT



	Dimensiune	Ambalare	
05019	10 piese	1	72,06

9 biti - 1/4“ C 6,3 - 25mm
TORSION - IMPACT: cate o bucata:
1x PH 1; PH 2; PH 3; PZ 1; PZ 2; PZ 3; TX 20; TX 25; TX 30
1 prelungitor IMPACT biti - 1/4“ E 6,3 - 54 mm: magnetic cu inel C

05020

Trusa 10 biti si accesorii Torsion MIX



	Dimensiune	Ambalare	
05020	10 piese	1	77,61

9 biti - 1/4“ C 6,3 - 25mm
TORSION: cate o bucata:
1x PH 1; PH 2; PH 3; PZ 1; PZ 2; PZ 3; TX 20; TX 25; TX 30
1 prelungitor biti Easylink-EasyLock- 1/4“ E 6,3 - 60 mm: magnetic - argintiu/verde

02229

Trusa 18 biti Allrounder cu inel de identificare

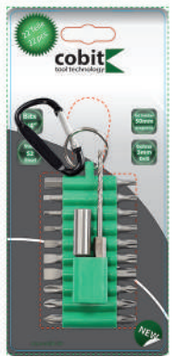


	Dimensiune	Ambalare	
02229	18 piese	1	119,20

18 biti - 1/4“ E 6,3 - 75mm cu inel colorat
S2 - sablati - uleiati - TORSION: cate o bucata:
CR rosu: PH 1; PH 2; PH 3
CR albastru: PZ 1; PZ 2; PZ 3
CR galben: TX 10; TX 15; TX 20; TX 25; TX 27; TX 30; TX 40
CR portocaliu (SL): 0,5 x 4,0; 1,0 x 6,0
CR portocaliu deschis: HEX 3; HEX 4; HEX 5

02611

Trusa 20 biti cu carabiniera



	Dimensiune	Ambalare	
02611	22 piese	1	83,11

20 biti - 1/4“ E 6,3 - 25mm:
TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40
PH 1, PH 2 (cu diametru redus), PH 3
PZ 1, PZ 2, PZ 3; HEX 6; #1, #2; SL 3; SL 4,5;
SL 5,5; SL 6,5
1 burghiu - 1/4" E 6,3 - 83 mm: dimensiune: 3mm
1 prelungitor biti - 1/4" E 6,3 - magnetic -50 mm

02525

Trusa 23 biti si accesorii IMPACT



	Dimensiune	Ambalare	
02525	23 piese	1	160,40

18 biti scurti 1/4“ C 6,3 - 25mm IMPACT:
2 x PH 1; 2 x PH 2; 1 x PH 3
2 x PZ 1; 2 x PZ 2; 1 x PZ 3
1 x TX 10; 1 x TX 15; 2 x TX 20; 2 x TX 25;
1 x TX 30; 1 x TX 40
4 biti lungi 1/4" E 6,3 - 50mm IMPACT:
PH 2; PZ 2; TX 20; TX 25
1 prelungitor biti IMPACT - 54 mm – 1/4" E 6,3

02009

Trusa 24 biti si accesorii pentru lemn



	Dimensiune	Ambalare	
02009	24 piese	1	132,62

21 biti - 1/4" C 6,3 - 25 mm - cu inel colorat
S2 - fara acoperire - sablati - uleiati:
lat (SL): 1x 1,0 x 5,5; 1x 1,2 x 6,5;
Pozidriv®: 1x PZ 1; 2x PZ 2; 1x PZ 3
Phillips®: 1x PH 2 cu coada redusa
TORX®: 1x TX 10; 1x TX 15; 1x TX 20; 1x TX 25;
1x TX 30; 1x TX 40
Assy®: 1x AW 10; 1x AW 20; 1x AW 25; 1x AW3 0
TTAP®: 1xTTAP 20; 1x TTAP 25; 1x TTAP 30; 1x TTAP 40
1 prelungitor biti - 1/4" E 6,3 - 60 mm: magnetic 11 mm Ø
2 extractoare suruburi - 1/4" C 6,3 - 50 mm - TiN (PVD):
1x dimensiune 2 (pentru suruburi 3 - 6 mm)
1x dimensiune 3 (pentru suruburi 5 - 10 mm)



PORT-SCULE

Portscule, reductii, prelungitoare, masini de ascutit burghie

Realizate conform standardelor internationale

DIAGER® TIVOLY KRONUS®





Mandrine	298
Dispozitive gaurire unghiulare	299
Ghidaje gaurire	299
Dispozitive ascutit burghie	300
Prelungitoare, dornuri, reductii	301
Universale de strung	301



120K

Mandrina rapida 0,5-10 mm

- *recomandata pentru masini electrice portabile*
- *capacitate: Ø0,5-10,0 mm*
- *filet: 3/8 - 24UNF*
- *2 mansoane din plastic*



DIAGER

	Capacitate	Ambalare	
120K	0,5-10,0	1	**253.85**

121K

Mandrina rapida 1,5-13 mm

- *recomandata pentru masini electrice portabile*
- *capacitate: Ø1,5-13,0 mm*
- *filet: 1/2 - 20UNF*
- *2 mansoane din plastic*
- *sistem de blocare*



DIAGER

	Capacitate	Ambalare	
121K	1,5-13,0	1	**362.14**

122K

Mandrina cu cheie 1,5-13 mm

- *recomandata pentru masini electrice portabile*
- *capacitate: Ø1,5-13,0 mm*
- *filet: 1/2 - 20UNF*
- *carcasa metalica*



DIAGER

	Capacitate	Ambalare	
122K	1,5-13,0	1	**208.26**

123K

Cheie pentru mandrina

- *recomandata pentru mandrina 122K*



DIAGER

	Capacitate	Ambalare	
123K	-	1	**45.90**

F3513A

Mandrina cu cheie 1,5-13 mm 1/2”-20UNF

- *recomandata pentru masini electrice portabile*
- *deschiderea mandrinei 1,5-13,0 mm*
- *prindere pe filet 1/2”-20 UNF*
- *otel calit*
- *elemente active rectificate*
- *cheie de strangere inclusa*



	Capacitate	Ambalare	
F3513A	1,5-13,0	1	**23.51**

20UNF

Dorn pentru mandrina SDS-plus 1/2”-20UNF



	Dimensiune	Ambalare	
20UNF	SDS-plus - 1/2”-UNF	1	**5.39**

73513A

Mandrina cu cheie 1,5-13 mm 1/2”-20UNF cu dorn adaptor SDS Plus

- *recomandata pentru masini electrice portabile*
- *deschiderea mandrinei 1,5-13,0 mm*
- *prindere pe filet 1/2”-20 UNF*
- *otel calit*
- *elemente active rectificate*
- *cheie de strangere inclusa*



KRONUS Professional Quality

	Capacitate	Ambalare	
73513A	1,5-13,0	1	**31.99**

124K

Mandrina rapida 1,5-13 mm

- *recomandata pentru utilizare pe polizoare electrice unghiulare*
- *capacitate: Ø1,5-13,0 mm*
- *filet: M14*
- *2 mansoane metalice*
- *sistem de blocare*



DIAGER

	Capacitate	Ambalare	
124K	1,5-13,0	1	**356.80**

DRDM

Mandrina automata cu prindere pe con

- *recomandata pentru utilaje stationare*
- *forta mare de strangere*
- *nu necesita cheie de strangere*



	Dimensiune	Dorn	Lungime	
J0106-B12	0,5-6,0 mm	B12	71,0	**178.22**
J0108-B12	0,0-8,0 mm	B12	81,0	**173.11**
J0110-B12	1,0-10,0 mm	B12	91,0	**173.11**
J0113-B12	1,0-13,0 mm	B12	101,0	**176.53**
J0113-B16	1,0-13,0 mm	B16	101,0	**176.53**
J0116-B18	3,0-16,0 mm	B18	113,0	**212.59**
J0120-B22	5,0-20,0 mm	B22	132,0	**321.18**

DRDH

Mandrina cu cheie cu prindere pe con

- *recomandata pentru utilaje stationare*
- *cheie de strangere inclusa*
- *otel calit*
- *elemente active rectificate*
- *cheie de strangere inclusa*



	Dimensiune	Dorn	Lungime	
J2110-B12	1,0-10,0 mm	B12	71,0	**81.96**
J2113-B16	1,0-13,0 mm	B16	81,0	**106.08**
J2116-B18	3,0-16,0 mm	B18	91,0	**135.01**
J2120-B22	5,0-20,0 mm	B22	101,0	**258.70**

143B - 172B - 177B

Adaptor pentru mandrina



DIAGER

	Dimensiune	Lungime totala	
143B	compatibil SDS-plus / 1/2"	60	**207.48**
172B	compatibil SDS-plus&SPIT / 1/2"	70	**216.59**
177B	compatibil SDS-max / 1/2"	170	**294.87**

138B

Adaptor SDS-max / SDS-plus



DIAGER

138B

	Dimensiune	Lungime totala	
138B	compatibil SDS-plus / coada SDS-max	250	**759.97**

02210

Dispozitiv unghiular de gaurire si strangere pentru biti 1/4” C 6,3 si E 6,3

- *solutia ideala pentru gaurire si strangere in locuri greu accesibile*
- *angrenaje din otel calit, pentru precizie de lucru ridicata si durata mare de utilizare*
- *moment maxim de torsiune: 57 Nm*
- *lungime: 140 mm*
- *compatibil cu majoritatea masinilor de gaurit sau surubelnite cu acumulator*
- *turatie maxima recomandata: 2.000 rpm*





cobit tool technology

	Dimensiune	L	Ambalare	
02210	1/4”	60	1	**316.27**

XT60632000794

Dispozitiv de ghidaj reglabil pentru imbinari cu cep

- *pentru imbinari usoare si precise de colt sau in T cu cepuri*
- *pozitionarea simultana a gaurilor pe ambele bucati de material ce urmeaza sa fie imbinate fara masuratori preliminarii*



TIVOLY

6-8-10 mm

XT60632000794	**311.73**

XT70017621300

Dispozitiv gaurire si insurubare sub unghi, reglabil la -90º, 0º,+90º ORBITER 360º

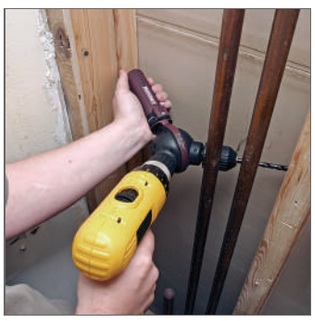
- *unicul dispozitiv de acest tip*
- *angrenaj sferic, permite gaurirea si insu-rubarea intr-un numar infinit de unghiuri pentru aplicatii in spatii reduse.*
- *odata stabilit unghiul de gaurire/insurubare, blocarea se realizeaza printr-o usoara rasucire a manerului.*
- *rotirea inversa deblocheaza dispozitivul*
- *mandrina rapida cu capacitate 0-10 mm.*
- *tija de actionare hexagonala potrivita la toate mandrinele de 10 mm sau mai mari.*
- *se recomanda utilizarea cu masini de gaurit cu fir de 1.000 rpm sau mai mai mult, cu burghie de pana la 19 mm sau burghie late pentru lemn*
- *NU se utilizeaza cu burghie mai mari de 19 mm, cu nici un fel de carote si/sau burghie elicoidale cu varf de centrare filetat pentru lemn, pentru a evita deteriorarea produsului.*

Mandrina cu strangere rapida 0,0-10,0 mm



Tija hexagonala de antrenare compatibila cu madrinele masinilor elecrtrice de 10,0 mm sau mai mari.

Maner de blocare pe pozitia unghiulara si de sustinere in timpul aplicatiei.







MILESCRAFT

	Dimensiune	
XT70017621300	145 mm	**322.82**

XT70017621390

Dispozitiv de gaurire universal DRILL 90º

- *dispozitiv de insurubare si gaurire*
- *la 90° pentru locuri greu accesibile*
- *se livreaza cu mandrina cu cheie 1,0-10,0 mm*
- *maner ergonomic si confortabil ce se poate utiliza cu mana stanga sau cu mana dreapta*
- *constructie robusta din otel cu durata de intrebuintare indelungata*







MILESCRAFT

	Dimensiune	
XT70017621390	135 mm	**180.71**

DRILL DOCTOR 400

Masina de ascutit burghie DRILL DOCTOR 400

- *ideal pentru DIY*
- *tipuri de burghie de zidarie cu carbura, HSS, HSS-Co, HSS-TiN*
- *recomandat pentru burghie in gama dimensionala Ø 2,5 - 13 mm*
- *unghi la varf 118°*
- *operatie de ascutire simpla pe fata de asezare*



DD 400 Drill Doctor The Drill Bit Sharpener

	Dimensiune	
1111177400B	2,5-13 mm / unghi la varf 118°	900.97

DRILL DOCTOR 500

Masina de ascutit burghie DRILL DOCTOR 500

- *ideal pentru DIY si profesional*
- *tipuri de burghie de zidarie cu carbura, HSS, HSS-Co, HSS-TiN*
- *recomandat pentru burghie in gama dimensionala Ø 2,5 - 13 mm*
- *unghi la varf 118° - 135°*
- *operatie de ascutire pe fata de asezare si detalonare suplimentara (split point)*



DD 500 Drill Doctor The Drill Bit Sharpener

	Dimensiune	
1111177500M	2,5-13 mm / unghi la varf 118°-135°	1,866.60

DRILL DOCTOR 750

Masina de ascutit burghie DRILL DOCTOR 750

- *recomandat pentru burghie in gama dimensionala Ø 2,5 -:- Ø 19 mm*
- *unghi la varf 118° -:- 135°*
- *operatie de ascutire pe fata de asezare si detalonare suplimentara (split point)*
- *unghi de degajare ajustabil*



DD 750 Drill Doctor The Drill Bit Sharpener

	Dimensiune	
1111177750M	2,5-19 mm / unghi la varf 118°-135°	2,339.78

11111720001

Piatra diamantata de ascutit Gr. 180

- *pentru masinile de ascutit burghie Drill Doctor 360, 500, 750*



M 180

	Dimensiune	
11111720001	Gr. 180	399.46

11111720004

Piatra diamantata de ascutit Gr. 100

- *pentru masinile de ascutit burghie Drill Doctor 360, 500, 750*



M 100

	Dimensiune	
11111720004	Gr. 100	345.29

11111720002

Mandrina 2,5-19 mm DRILL DOCTOR

- *pentru masinile de ascutit burghie Drill Doctor 500, 750*



Ø 2,5-19

	Dimensiune	
11111720002	2,5-19 mm	681.00

CSAY

Prelungitor Con Morse

- *material: otel aliat de scule, tratat termic*
- *in conformitate cu normele DIN 2187*
- *con exterior rectificat. con interior alezat*



	Dimensiune	Dorn	Lungime	
MT1*1	MT1xMT1		145,0	**136.92**
MT1*2	MT1xMT2		160,0	**144.98**
MT1*3	MT1xMT3		181,0	**174.01**
MT2*3	MT2xMT3		196,0	**203.03**
MT2*4	MT2xMT4		221,0	**253.75**
MT3*4	MT3xMT4		240,0	**326.26**
MT3*5	MT3xMT5		275,0	**435.02**
MT4*5	MT4xMT5		300,0	**471.29**

CSAX

Reductie Con Morse

- *material: otel aliat de scule, tratat termic*
- *in conformitate cu normele DIN 2185*
- *con exterior rectificat si con interior alezat*



	Dimensiune	Lungime	
MT2*1	MT2-MT1	105,0	**58.66**
MT3*1	MT3-MT1	124,0	**75.92**
MT3*2	MT3-MT2	131,0	**75.92**
MT4*2	MT4-MT2	139,0	**104.41**
MT4*3	MT4-MT3	156,0	**104.41**
MT5*2	MT5-MT2	164,0	**169.85**
MT5*3	MT5-MT3	172,0	**153.47**

CSBD

Dorn pentru mandrina

- *in conformitate cu normele DIN 238*
- *calit si rectificat in intregime*



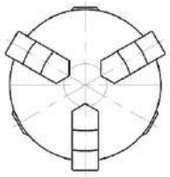
	Dimensiune	Lungime	
MT1-B12	MT1-B12	88,0	**45.78**
MT1-B16	MT1-B16	94,0	**45.78**
MT2-B12	MT2-B12	105,0	**48.20**
MT2-B16	MT2-B16	107,0	**53.89**
MT2-B18	MT2-B18	115,0	**53.89**
MT3-B12	MT3-B12	120,0	**64.92**
MT3-B16	MT3-B16	126,0	**64.92**
MT3-B18	MT3-B18	134,0	**64.92**
MT3-B22	MT3-B22	143,0	**75.74**
MT4-B16	MT4-B16	151,0	**79.93**
MT4-B18	MT4-B18	159,0	**79.93**
MT4-B22	MT4-B22	167,0	**79.73**

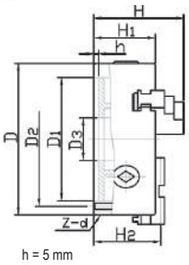
K11 160

Universal de strung cu 3 bacuri

- *degajare pentru montare pe flansa*
- *include un set de bacuri interioare si un set de bacuri exterioare*
- *se livreaza cu cheie*
- *clasa II*





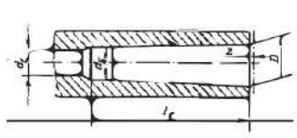


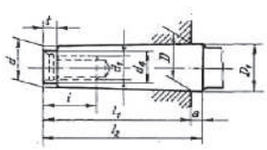
D = 160 mm
D1 = 130 mm
D2 = 142 mm
D3 = 40 mm
H = 95 mm
H1 = 65 mm

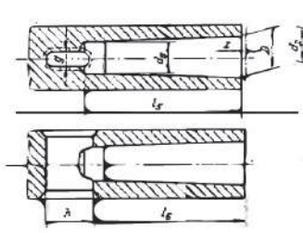
h = 5 mm
S = 10 mm
z-d = 3-M8
cuplu maxim: 160 Nm
turatii max.: 2500 rpm
greutate: 8,8 kg

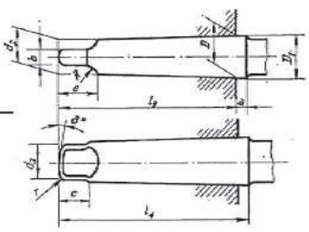
	Dimensiune	Ambalare	
K11160	130x142x40x95x65x5 mm	1	**1108,00**

Simbol			Con metric		Con morse								Con metric			
			4	6	0	1	2	3	4	5	6	80	100	120	160	200
Dimensiuni de baza	Conicitate		1:2 =0,05	1:20 =0,05	0,624:12 =1:19,212 =0,05208	0,59858:12 =1:20,047 =0,04998	0,59858:12 =1:20,020 =0,04995	0,60235:2 =1:19,922 =0,05020	0,62326:12 =1:19,254 =0,05194	0,63151:12 =1:19,002 =0,05263	0,62565:12 =1:19,180 =0,05214	1:20 =0,05	1:20 =0,05	1:20 =0,05	1:20 =0,05	1:20 =0,05
Con exterior	D		4	6	9,045	12,065	17,780	23,825	31,267	44,399	63,348	80	100	120	160	200
	Q		2	3	3	3,5	5	5	6,5	6,5	8	8	10	12	16	20
	D1	1)	4,1	6,2	9,2	9,4	18	24,1	31,6	44,7	63,8	80,4	100,5	120,6	160,8	201
	d	1)	2,9	4,4	6,4	12,2	14,6	19,8	25,9	37,6	53,9	70,2	88,4	106,6	143	179,4
	d1		-	-	-	M 6	M 10	M 12	M 16	M 20	M 24	M 30	M 36	M 36	M 48	M 48
	d2	1)	-	-	6,1	9	14	19,1	25,2	36,5	52,4	69	87	105	141	177
	d3	max.	-	-	6	8,7	13,5	18,5	24,5	35,7	51	67	85	102	138	174
	d4	max.	2,5	4	6	9	14	19	25	35,7	51	67	85	102	138	174
	l1	max.	23	32	50	53,5	64	81	105,5	129,5	182	196	232	268	340	412
	l2	max.	25	35	53	57	69	86	109	136	190	204	242	280	356	432
	l3	max.	-	-	56,5	62	75	94	117,5	149,5	210	220	260	300	380	460
	l4	max.	-	-	59,5	65,5	80	99	124	156	218	228	270	310	396	480
	b	h 13	-	-	3,9	5,2	6,3	7,9	11,9	15,9	19	26	32	38	50	62
	c	2)	-	-	6,5	8,5	10	13	16	19	27	24	28	32	40	48
	e	max.	-	-	10,5	13,5	16	20	24	29	40	48	58	68	88	108
	i	min.	-	-	-	16	24	28	32	40	50	65	80	80	100	100
	R	max.	-	-	4	5	6	7	8	10	13	24	30	36	48	60
	r		-	-	1	1,2	1,6	2	2,5	3	4	5	5	6	8	10
	t	max.	2	3	4	5	5	7	9	10	16	24	30	36	48	60
Con interior	d5	H 11	3	4,6	6,7	9,7	14,9	20,2	26,5	38,2	54,6	71,5	90	108,5	145,5	182,5
	d6		-	-	-	7	11,5	14	18	23	27	33	39	39	52	52
	l5	min.	25	34	52	56	67	84	107	135	188	202	240	276	350	424
	l6		21	29	49	52	62	78	98	125	177	186	220	254	321	388
	g	A 13	2,2	3,2	3,9	5,2	6,3	7,9	11,9	15,9	19	23	32	38	50	62
	h		8	12	15	19	22	27	32	38	47	52	60	70	90	110
	z	3)	0,5	0,5	1	1	1	1	1,5	1,5	2	2	2	2	3	3



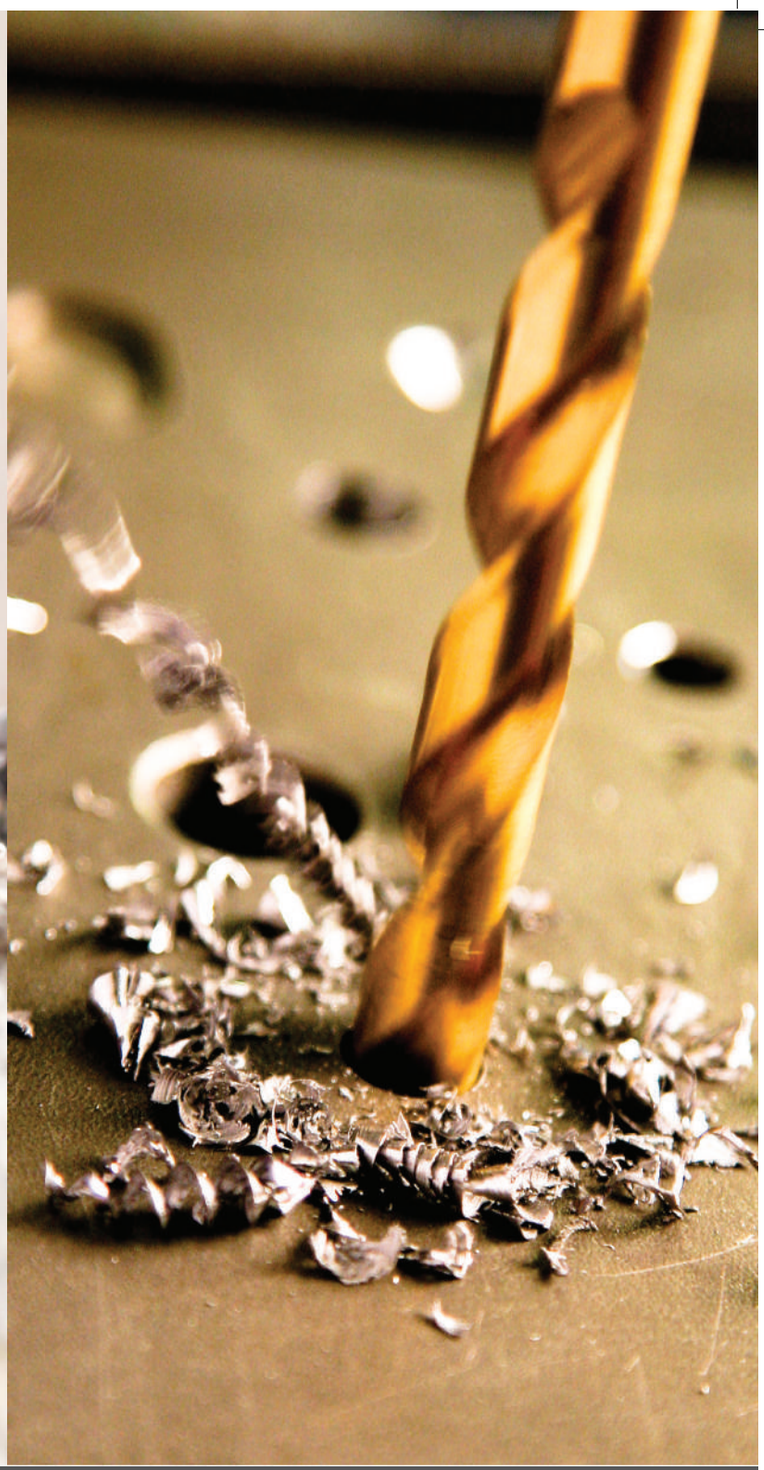






1) D1, d si d2 sunt valori aproximate si au caracter informativ. Valorile efective rezulta din conicitate si dimensiunea de baza D si valorile efective ale cotei a, l si l3.
2) Este admis de a mari lungimea c de, stnmjire a capului de evacuare la diamecrul d3 pana la valoarea e.
3.) z-in raport cu pozitia nominala de coincidenta cu fata conului interior a planului portant al dimensiunii de bazi D, z este abaterea maxima admisa (numai) spre exterior.
COZI CONICE CU CAP DE EVACUARE
COZI CONICE CU GAMA FILETATA





SCULE ASCHIETOARE SI ACCESORII

Scule pentru prelucrarea metalelor

Scule pentru gaurire, filetare, frezare, decupare / carotare si alezare

Utilizare in oteluri nealiate, slab sau inalt aliate, oteluri inoxidabile si refractare, fonte, materiale neferoase si aliajele acestora, materile compozite, materiale plastice etc., bare, placi, profile sau diverse piese din aceste materiale

Scule pentru materiale de consturctii

Scule pentru gaurire, decupare / carotare si/sau spargere

Utilizare beton, beton armat, zidarie, tencuieli, caramida plina, caramida si prefabricate celulare, placi ceramice, marmura, granit si alte tipuri de piatra (roca) naturala, asfalt, sticla, ghiata, materiale plastice, materiale stratificate diverse etc.

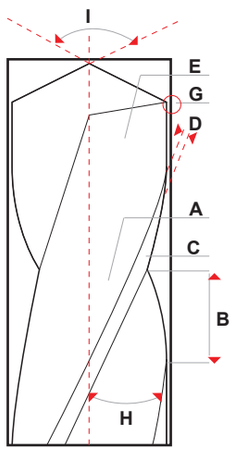
Scule pentru prelucrarea lemnului si a materialelor aglomerate sau stratificate

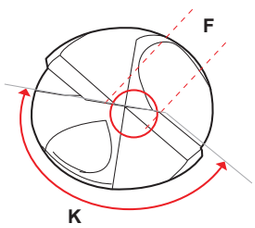
Scule pentru gaurire, frezare, decupare / carotare

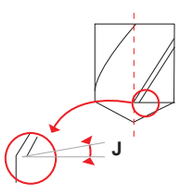
Utilizare in placi din lemn sau lemn masiv, de esenta moale / esenta tare, lemn exotic, lemn verde, placi aglomerate, placi melaminate sau cu diverse alte acoperiri, placi stratificate, placi sau lemn cu cuie, etc.

TIVOLY DIAGER BOC BOHRCRAFT USH GERMANY WILPU MADE IN GERMANY

Burghie pentru metal







A. Dinte

B. Semipasul elicei

C. Fateta dintelui

D. Latimea fatetei

E. Spatele dintelui; suprafata detalonata

F. Miezul burghiului

G. Varful taisului principal, punct extern

H. Unghiul elicei

I. Unghiul la varf ; este unghiul format de cele doua taisuri principale

J. Proiectia unghiului de asezare principal; se refera la unghiul de detalonare pe fata de asezare principala

K. Unghiul taisului transversal

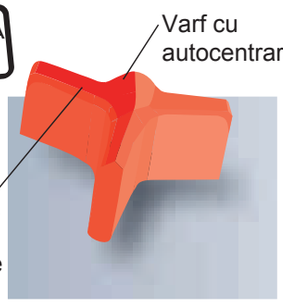
N	$\frac{Vc \times 100}{\varnothing \times \pi}$	Viteza de rotatie
Vc	$\frac{\varnothing \times \pi \times N}{1000}$	Viteza de taiere
Fz	$\frac{Vf}{Z \times N}$	Avans pe dinte
F	$Fz \times Z$	Avans pe rotatie
Vf	$Fz \times Z \times N$	Viteza de avans

Burghie pentru materiale de constructii

TEHNOLOGIE CU 3 MUCHII TAIETOARE

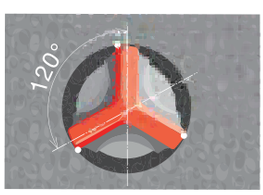
3 puncte de contact

VARF DIN CARBURA MONOBLOC



GAURI PERFECTE

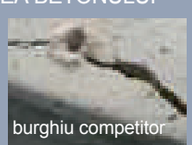
Unghiul de 120° garanteaza gauri perfect concentrice (3X120°=360). Booster plus permite gauriri drepte.



3 puncte de contact simultane permit o performanta constanta in timp.

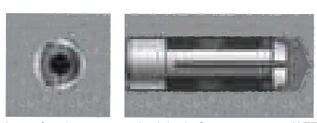
GAURIRE FARA FISURAREA BETONULUI





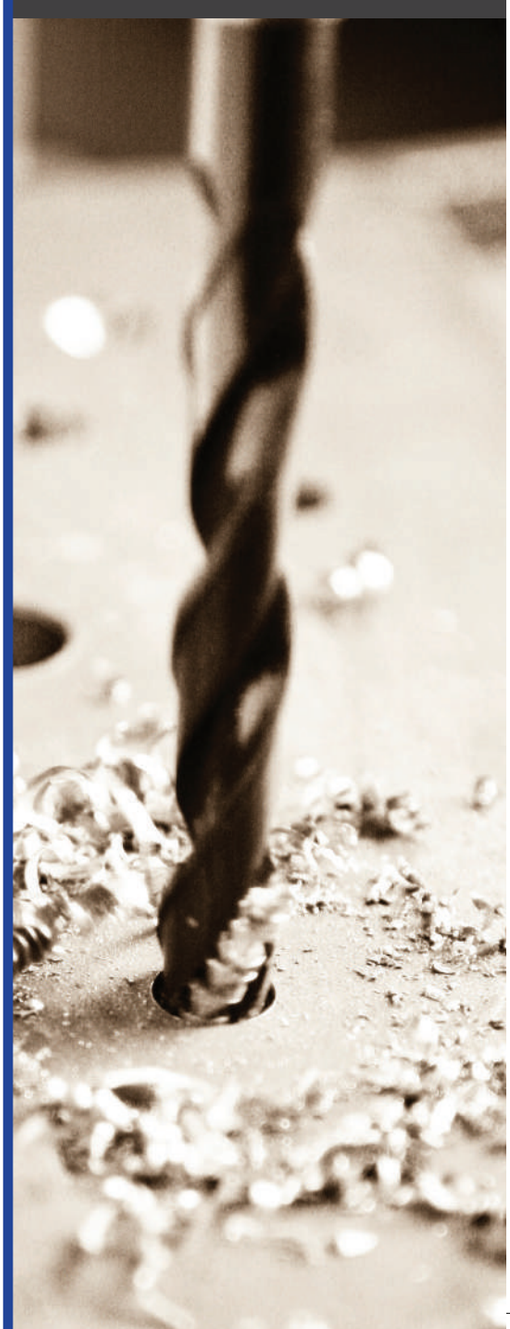
Varful din carbura Booster plus realizeaza gauri curate si perfecte fara fisurarea betonului la gaurirea in apropierea unei margini.

FIXARE OPTIMA



In conformitate cu standardele de fixare europene (ATE)

Burghie cu coada cilinrica, conica, burghie in trepte, accesorii	304
Tarozi de mana si de masina, filiere, accesorii filetare	323
Freze din carbura monobloc, freze HSS, cu coada cilindrica si conica, freze biax CMS	338
Alezoare de mana si de masina, cu coada cilindrica, conica	349
Seturi de burghie	350
Burghie pentru constructii, dalti, spituri, accesorii	353
Carote placate si diamantate, carote bimetal, seturi de carote	370
Carote pentru metal cu prindere Weldon, accesorii	383
Extractoare de suruburi	389



Burghie cilindrice scurte pentru metal DIN 338, tip N, 118°, HSS, laminate, brunate

- *burghie cilindrice scurte pentru metal, conform DIN 338 tip N, unghi de ascutire 118°*
- *material HSS, tratate termic, laminate, brunate*
- *taiere pe dreapta*
- *unghiul spirei 20-30°*
- *toleranta diametrului h8 .*
- *destinate pentru gaurire in oteluri ne aliate si slab aliate, cu σr≤750 N/mm², gaurire in fonte si materiale neferoase (aliaje de aluminiu, cupru si bronzuri), materiale sinterizate diverse (nu in piese sinterizate din pulberi de oteluri sau din carburi metalice) se pot folosi atat pe masini de gaurit, utilaje stationare si fixe, cat si pe masini de gaurit portabile, electrice sau pneumatice*



BOHRCRAFT

DIN	HSS	Typ	
338	R	N	118°

	DIM.	LT	LU	AMB	
11000100030	0,3	19	3	10	**0.92**
11000100040	0,4	20	5	10	**0.92**
11000100050	0,5	22	6	10	**0.92**
11000100060	0,6	24	7	10	**0.92**
11000100070	0,7	28	9	10	**0.92**
11000100080	0,8	30	10	10	**0.92**
11000100090	0,9	32	11	10	**0.92**
11000100100	1,0	34	12	10	**0.92**
11000100110	1,1	36	14	10	**0.92**
11000100120	1,2	38	16	10	**0.92**
11000100125	1,25	38	16	10	**0.92**
11000100130	1,3	38	16	10	**0.92**
11000100140	1,4	40	18	10	**0.92**
11000100150	1,5	40	18	10	**0.92**
11000100160	1,6	43	20	10	**1.08**
11000100170	1,7	43	20	10	**1.08**
11000100175	1,75	46	23	10	**1.08**
11000100180	1,8	46	23	10	**1.08**
11000100190	1,9	46	23	10	**1.08**
11000100200	2,0	49	24	10	**1.08**
11000100210	2,1	49	24	10	**1.23**
11000100220	2,2	53	27	10	**1.23**
11000100225	2,25	53	27	10	**1.23**
11000100230	2,3	53	27	10	**1.23**
11000100240	2,4	57	30	10	**1.23**
11000100250	2,5	57	30	10	**1.23**
11000100260	2,6	57	30	10	**1.39**
11000100270	2,7	61	33	10	**1.39**
11000100275	2,75	61	33	10	**1.39**
11000100280	2,8	61	33	10	**1.39**
11000100290	2,9	61	33	10	**1.39**
11000100300	3,0	61	33	10	**1.39**
11000100310	3,1	65	36	10	**1.70**
11000100320	3,2	65	36	10	**1.70**
11000100325	3,25	65	36	10	**1.70**
11000100330	3,3	65	36	10	**1.70**
11000100340	3,4	70	39	10	**1.70**
11000100350	3,5	70	39	10	**1.70**
11000100360	3,6	70	39	10	**2.00**
11000100370	3,7	70	39	10	**2.00**
11000100375	3,75	70	39	10	**2.00**
11000100380	3,8	75	43	10	**2.00**
11000100390	3,9	75	43	10	**2.00**
11000100400	4,0	75	43	10	**2.00**
11000100410	4,1	75	43	10	**2.00**
11000100420	4,2	75	43	10	**2.00**
11000100425	4,25	75	43	10	**2.16**
11000100430	4,3	80	47	10	**2.00**
11000100440	4,4	80	47	10	**2.00**
11000100450	4,5	80	47	10	**2.00**
11000100460	4,6	80	47	10	**2.31**
11000100470	4,7	80	47	10	**2.31**
11000100475	4,75	80	47	10	**2.31**
11000100480	4,8	86	52	10	**2.31**
11000100490	4,9	86	52	10	**2.31**
11000100500	5,0	86	52	10	**2.31**
11000100510	5,1	86	52	10	**2.47**
11000100520	5,2	86	52	10	**2.62**
11000100525	5,25	86	52	10	**2.62**
11000100530	5,3	86	52	10	**2.62**
11000100540	5,4	93	57	10	**2.62**
11000100550	5,5	93	57	10	**2.62**
11000100560	5,6	93	57	10	**2.77**
11000100570	5,7	93	57	10	**2.77**
11000100575	5,75	93	57	10	**2.77**
11000100580	5,8	93	57	10	**2.77**
11000100590	5,9	93	57	10	**2.77**
11000100600	6,0	93	57	10	**2.62**
11000100610	6,1	101	63	10	**3.39**

	DIM.	LT	LU	AMB	
11000100620	6,2	101	63	10	**3.39**
11000100625	6,25	101	63	10	**3.39**
11000100630	6,3	101	63	10	**3.39**
11000100640	6,4	101	63	10	**3.39**
11000100650	6,5	101	63	10	**3.08**
11000100660	6,6	101	63	10	**3.85**
11000100670	6,7	101	63	10	**3.85**
11000100675	6,75	109	69	10	**3.85**
11000100680	6,8	109	69	10	**3.85**
11000100690	6,9	109	69	10	**3.85**
11000100700	7,0	109	69	10	**3.54**
11000100710	7,1	109	69	10	**4.47**
11000100720	7,2	109	69	10	**4.47**
11000100725	7,25	109	69	10	**4.47**
11000100730	7,3	109	69	10	**4.47**
11000100740	7,4	109	69	10	**4.47**
11000100750	7,5	109	69	10	**4.16**
11000100760	7,6	117	75	10	**4.78**
11000100770	7,7	117	75	10	**4.78**
11000100775	7,75	117	75	10	**4.78**
11000100780	7,8	117	75	10	**4.78**
11000100790	7,9	117	75	10	**4.78**
11000100800	8,0	117	75	10	**4.78**
11000100810	8,1	117	75	10	**5.70**
11000100820	8,2	117	75	10	**5.70**
11000100825	8,25	117	75	10	**5.70**
11000100830	8,3	117	75	10	**5.70**
11000100840	8,4	117	75	10	**5.70**
11000100850	8,5	117	75	10	**5.70**
11000100860	8,6	125	81	10	**6.01**
11000100870	8,7	125	81	10	**6.01**
11000100875	8,75	125	81	10	**6.01**
11000100880	8,8	125	81	10	**6.01**
11000100890	8,9	125	81	10	**6.01**
11000100900	9,0	125	81	10	**6.01**
11000100910	9,1	125	81	10	**7.40**
11000100920	9,2	125	81	10	**7.40**
11000100925	9,25	125	81	10	**7.40**
11000100930	9,3	125	81	10	**7.40**
11000100940	9,4	125	81	10	**7.40**
11000100950	9,5	125	81	10	**7.09**
11000100960	9,6	133	87	10	**8.01**
11000100970	9,7	133	87	10	**8.01**
11000100975	9,75	133	87	10	**8.01**
11000100980	9,8	133	87	10	**8.01**
11000100990	9,9	133	87	10	**8.01**
11000101000	10,0	133	87	10	**7.86**
11000101010	10,1	133	87	10	**9.71**
11000101020	10,2	133	87	10	**8.78**
11000101025	10,25	133	87	10	**9.71**
11000101030	10,3	133	87	10	**9.71**
11000101040	10,4	133	87	10	**9.71**
11000101050	10,5	133	87	10	**8.63**
11000101060	10,6	142	94	10	**11.25**
11000101070	10,7	142	94	10	**11.25**
11000101075	10,75	142	94	10	**11.25**
11000101080	10,8	142	94	10	**11.25**
11000101090	10,9	142	94	10	**11.25**
11000101100	11,0	142	94	10	**10.48**
11000101110	11,1	142	94	10	**11.71**
11000101120	11,2	142	94	10	**11.71**
11000101125	11,25	142	94	10	**11.71**
11000101130	11,3	142	94	10	**11.71**
11000101140	11,4	142	94	10	**11.71**
11000101150	11,5	142	94	10	**11.71**
11000101160	11,6	151	101	10	**13.10**
11000101170	11,7	151	101	10	**13.10**
11000101175	11,75	151	101	10	**13.10**
11000101180	11,8	151	101	10	**12.79**

	DIM.	LT	LU	AMB	
11000101190	11,9	151	101	10	**12.79**
11000101200	12,0	151	101	10	**12.64**
11000101210	12,1	151	101	10	**14.49**
11000101220	12,2	151	101	10	**14.49**
11000101225	12,25	151	101	10	**14.49**
11000101230	12,3	151	101	10	**14.49**
11000101240	12,4	151	101	10	**14.49**
11000101250	12,5	151	101	10	**14.18**
11000101260	12,6	151	101	10	**14.79**
11000101270	12,7	151	101	10	**14.79**
11000101275	12,75	151	101	10	**14.79**
11000101280	12,8	151	101	10	**14.79**
11000101290	12,9	151	101	10	**14.79**
11000101300	13,0	151	101	10	**14.18**
11000101350	13,5	160	108	10	**17.26**
11000101400	14,0	160	108	10	**18.80**
11000101450	14,5	169	114	10	**20.80**
11000101500	15,0	169	114	10	**22.50**
11000101550	15,5	178	120	10	**25.43**
11000101600	16,0	178	120	5	**26.97**
11000101650	16,5	184	125	5	**31.28**
11000101700	17,0	184	125	5	**33.90**
11000101750	17,5	191	130	5	**35.13**
11000101800	18,0	191	130	5	**42.38**
11000101850	18,5	198	135	5	**43.61**
11000101900	19,0	198	135	5	**47.15**
11000101950	19,5	205	140	5	**51.16**
11000102000	20,0	205	140	1	**52.24**

1100 SB

Burghie cilindrice scurte pentru metal DIN 338, tip N, 118°, HSS, laminate, brunate, husa

- *burghie cilindrice scurte pentru metal, conform DIN 338 tip N, unghi ascutire 118°*
- *material HSS, tratate termic, laminate, brunate*
- *taiere pe dreapta*
- *unghiul spirei 20-30°*
- *toleranta diametrului h8 .*
- *destinatie si utilizare idem Art 1100*



BOHRCRAFT



DIN 338	HSS R	Typ N	118°

	DIM.	LT	LU	AMB	
11000730100	1,0	34	12	3	**4.01**
11000730150	1,5	40	18	3	**4.01**
11000730200	2,0	49	24	3	**4.01**
11000730250	2,5	57	30	3	**4.31**
11000730300	3,0	61	33	3	**4.31**
11000730310	3,1	65	36	3	**6.78**
11000730320	3,2	65	36	3	**6.78**
11000730330	3,3	65	36	3	**6.78**
11000720350	3,5	70	39	2	**3.54**
11000720400	4,0	75	43	2	**3.54**
11000720410	4,1	75	43	2	**5.86**
11000720420	4,2	75	43	2	**3.85**
11000720450	4,5	80	47	2	**4.01**
11000720480	4,8	86	52	2	**4.47**
11000720500	5,0	86	52	2	**4.62**
11000700510	5,1	86	52	1	**4.31**
11000700520	5,2	86	52	1	**4.31**
11000700550	5,5	93	57	1	**3.24**
11000700600	6,0	93	57	1	**3.54**
11000700650	6,5	101	63	1	**3.70**
11000700680	6,8	109	69	1	**5.86**
11000700700	7,0	109	69	1	**4.16**
11000700750	7,5	109	69	1	**5.86**
11000700800	8,0	117	75	1	**4.93**
11000700850	8,5	117	75	1	**5.55**
11000700900	9,0	125	81	1	**6.16**
11000700950	9,5	125	81	1	**8.32**
11000701000	10,0	133	87	1	**7.40**
11000701020	10,2	133	87	1	**10.32**
11000701050	10,5	133	87	1	**10.48**
11000701100	11,0	142	94	1	**12.48**
11000701150	11,5	142	94	1	**12.94**
11000701200	12,0	151	101	1	**13.71**
11000701250	12,5	151	101	1	**14.95**
11000701300	13,0	151	101	1	**14.95**

1109

Burghie cilindrice cu coada redusa pentru metal DIN 338, tip N, 118°, HSS, laminate, brunate

- *burghie cilindrice scurte pentru metal, conform DIN 338, tip N, 118°*
- *material HSS, tratate termic, laminate, brunate*
- *taiere pe dreapta*
- *unghiul spirei 20-30°*
- *toleranta diametrului h8*
- *varianta constructiva cu coada redusa*
- *destinatie si utilizare idem Art 1100 si Art 1100SB*



BOHRCRAFT

DIN 338	HSS R	Typ N	118°

	DIM.	LT	LU	COADA	AMB	
11090101050	10,5	133	87	10 x 30	5	**13.41**
11090101100	11,0	142	94	10 x 30	5	**15.26**
11090101150	11,5	142	94	10 x 30	5	**16.49**
11090101200	12,0	151	101	10 x 30	5	**18.34**
11090101250	12,5	151	101	10 x 30	5	**20.03**
11090101300	13,0	151	101	10 x 30	5	**20.03**
11090101350	13,5	160	108	10 x 30	5	**23.58**
11090101400	14,0	160	108	10 x 30	5	**27.28**
11090101450	14,5	169	114	10 x 30	5	**31.13**
11090101500	15,0	169	114	10 x 30	5	**32.51**
11090101550	15,5	178	120	10 x 30	5	**37.29**
11090101600	16,0	178	120	10 x 30	5	**38.22**
11090101650	16,5	184	125	13 x 35	5	**41.61**
11090101700	17,0	184	125	13 x 35	5	**41.61**
11090101750	17,5	191	130	13 x 35	5	**46.08**
11090101800	18,0	191	130	13 x 35	5	**48.85**
11090101850	18,5	198	135	13 x 35	5	**52.24**
11090101900	19,0	198	135	13 x 35	5	**53.93**
11090101950	19,5	205	140	13 x 35	5	**56.40**
11090102000	20,0	205	140	13 x 35	1	**59.02**

1109 SB

Burghie cilindrice cu coada redusa pentru metal DIN 338, tip N, 118°, HSS, laminate, brunate, husa

- *burghie cilindrice scurte pentru metal, conform DIN 338, tip N, 118°*
- *material HSS, tratate termic, laminate, brunate*
- *taiere pe dreapta*
- *unghiul spirei 20-30°*
- *toleranta diametrului h8*
- *varianta constructiva cu coada redusa*
- *destinatie si utilizare idem Art 1100 si Art 1100SB*



BOHRCRAFT



DIN 338	HSS R	Typ N	118°

	DIM.	LT	LU	COADA	AMB	
11090701050	10,5	133	87	10 x 30	1	**16.03**
11090701100	11,0	142	94	10 x 30	1	**17.41**
11090701150	11,5	142	94	10 x 30	1	**17.88**
11090701200	12,0	151	101	10 x 30	1	**18.80**
11090701250	12,5	151	101	10 x 30	1	**20.80**
11090701300	13,0	151	101	10 x 30	1	**23.11**
11090701350	13,5	160	108	10 x 30	1	**26.50**
11090701400	14,0	160	108	10 x 30	1	**28.66**
11090701450	14,5	169	114	10 x 30	1	**32.51**
11090701500	15,0	169	114	10 x 30	1	**36.52**
11090701550	15,0	178	120	10 x 30	1	**40.22**
11090701600	16,0	178	120	10 x 30	1	**44.84**
11090701650	16,5	184	125	13 x 35	1	**45.30**
11090701700	17,0	184	125	13 x 35	1	**47.92**
11090701750	17,5	191	130	13 x 35	1	**50.70**
11090701800	18,0	191	130	13 x 35	1	**52.39**
11090701850	18,5	198	135	13 x 35	1	**56.40**
11090701900	19,0	198	135	13 x 35	1	**57.94**
11090701950	19,5	205	140	13 x 35	1	**60.87**
11090702000	20,0	205	140	13 x 35	1	**63.49**

Burghie cilindrice scurte pentru metal DIN 338, tip N, 118°, HSS-G rectificate

- *burghie cilindrice scurte pentru metal, conform DIN 338, tip N, unghi de ascutire 118°*
- *material HSS-G, tratate, rectificate*
- *taiere pe dreapta*
- *unghiul spirei 20-30°*
- *toleranta diametrului h8*
- *de la Ø 2 mm cu ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida*
- *destinate pentru gaurire in oteluri ne aliate si slab aliate, cu σr≤800 N/mm², gaurire in fonte si materiale neferoase (aliaje de aluminiu, cupru si bronzuri), mase plastice, materiale sinterizate diverse (nu in piese sinterizate din pulberi de oteluri sau din carburi metalice)*
- *recomandabil a se pot folosi pe masini de gaurit, utilaje stationare si fixe si numai ocazional pe masini de gaurit portabile, electrice sau pneumatice*



BOHRCRAFT

DIN 338 | HSS G | Typ N | 118° | DIN 1412 C SPLIT POINT | 800 N/mm²

	DIM.	LT	LU	AMB	
11200100050	0,5	22	6	10	**1.85**
11200100060	0,6	24	7	10	**1.85**
11200100070	0,7	28	9	10	**1.85**
11200100080	0,8	30	10	10	**1.85**
11200100090	0,9	32	11	10	**1.85**
11200100100	1,0	34	12	10	**1.85**
11200100110	1,1	36	14	10	**1.85**
11200100120	1,2	38	16	10	**1.85**
11200100130	1,3	38	16	10	**1.85**
11200100140	1,4	40	18	10	**1.85**
11200100150	1,5	40	18	10	**1.85**
11200100160	1,6	43	20	10	**1.85**
11200100170	1,7	43	20	10	**1.85**
11200100180	1,8	46	23	10	**1.85**
11200100190	1,9	46	23	10	**1.85**
11200100200	2,0	49	24	10	**1.85**
11200100210	2,1	49	24	10	**2.00**
11200100220	2,2	53	27	10	**2.00**
11200100230	2,3	53	27	10	**2.00**
11200100240	2,4	57	30	10	**2.00**
11200100250	2,5	57	30	10	**2.00**
11200100260	2,6	57	30	10	**2.16**
11200100270	2,7	61	33	10	**2.16**
11200100280	2,8	61	33	10	**2.16**
11200100290	2,9	61	33	10	**2.16**
11200100300	3,0	61	33	10	**2.00**
11200100310	3,1	65	36	10	**2.47**
11200100320	3,2	65	36	10	**2.47**
11200100325	3,25	65	36	10	**2.47**
11200100330	3,3	65	36	10	**2.47**
11200100340	3,4	70	39	10	**2.47**
11200100350	3,5	70	39	10	**2.16**
11200100360	3,6	70	39	10	**3.70**
11200100370	3,7	70	39	10	**3.70**
11200100380	3,8	75	43	10	**3.70**
11200100390	3,9	75	43	10	**3.70**
11200100400	4,0	75	43	10	**3.24**
11200100410	4,1	75	43	10	**4.01**
11200100420	4,2	75	43	10	**4.01**
11200100425	4,25	75	43	10	**4.47**
11200100430	4,3	80	47	10	**4.47**
11200100440	4,4	80	47	10	**4.47**
11200100450	4,5	80	47	10	**4.01**
11200100460	4,6	80	47	10	**5.39**
11200100470	4,7	80	47	10	**5.39**
11200100480	4,8	86	52	10	**5.39**
11200100490	4,9	86	52	10	**5.39**
11200100500	5,0	86	52	10	**4.62**
11200100510	5,1	86	52	10	**5.86**
11200100520	5,2	86	52	10	**5.24**
11200100530	5,3	86	52	10	**5.86**
11200100540	5,4	93	57	10	**5.86**
11200100550	5,5	93	57	10	**5.24**
11200100560	5,6	93	57	10	**7.09**
11200100570	5,7	93	57	10	**7.09**
11200100580	5,8	93	57	10	**7.09**
11200100590	5,9	93	57	10	**7.09**
11200100600	6,0	93	57	10	**6.16**
11200100610	6,1	101	63	10	**7.55**
11200100620	6,2	101	63	10	**7.55**
11200100630	6,3	101	63	10	**7.55**
11200100640	6,4	101	63	10	**7.55**
11200100650	6,5	101	63	10	**6.78**
11200100660	6,6	101	63	10	**9.25**

	DIM.	LT	LU	AMB	
11200100670	6,7	101	63	10	**9.25**
11200100680	6,8	109	69	10	**8.01**
11200100690	6,9	109	69	10	**9.25**
11200100700	7,0	109	69	10	**8.01**
11200100710	7,1	109	69	10	**10.94**
11200100720	7,2	109	69	10	**10.94**
11200100730	7,3	109	69	10	**10.94**
11200100740	7,4	109	69	10	**10.94**
11200100750	7,5	109	69	10	**9.25**
11200100760	7,6	117	75	10	**12.17**
11200100770	7,7	117	75	10	**12.17**
11200100780	7,8	117	75	10	**12.17**
11200100790	7,9	117	75	10	**12.17**
11200100800	8,0	117	75	10	**11.40**
11200100810	8,1	117	75	10	**14.02**
11200100820	8,2	117	75	10	**14.02**
11200100830	8,3	117	75	10	**14.02**
11200100840	8,4	117	75	10	**14.02**
11200100850	8,5	117	75	10	**12.17**
11200100860	8,6	125	81	10	**14.95**
11200100870	8,7	125	81	10	**14.95**
11200100880	8,8	125	81	10	**14.95**
11200100890	8,9	125	81	10	**14.95**
11200100900	9,0	125	81	10	**13.56**
11200100910	9,1	125	81	10	**16.95**
11200100920	9,2	125	81	10	**16.95**
11200100930	9,3	125	81	10	**16.95**
11200100940	9,4	125	81	10	**16.95**
11200100950	9,5	125	81	10	**14.79**
11200100960	9,6	133	87	10	**19.11**
11200100970	9,7	133	87	10	**19.11**
11200100980	9,8	133	87	10	**19.11**
11200100990	9,9	133	87	10	**19.11**
11200101000	10,0	133	87	10	**16.49**
11200101010	10,1	133	87	10	**19.88**
11200101020	10,2	133	87	10	**19.88**
11200101030	10,3	133	87	10	**19.88**
11200101040	10,4	133	87	10	**19.88**
11200101050	10,5	133	87	10	**17.57**
11200101060	10,6	142	94	10	**21.57**
11200101070	10,7	142	94	10	**21.57**
11200101080	10,8	142	94	10	**21.57**
11200101090	10,9	142	94	10	**21.57**
11200101100	11,0	142	94	10	**19.88**
11200101110	11,1	142	94	10	**23.58**
11200101120	11,2	142	94	10	**23.58**
11200101130	11,3	142	94	10	**23.58**
11200101150	11,5	142	94	10	**21.42**
11200101180	11,8	142	94	10	**26.35**
11200101190	11,9	142	94	10	**26.35**
11200101200	12,0	151	101	10	**24.04**
11200101220	12,2	151	101	10	**28.35**
11200101225	12,25	151	101	10	**28.35**
11200101250	12,5	151	101	10	**25.58**
11200101270	12,7	151	101	10	**32.21**
11200101275	12,75	151	101	10	**32.21**
11200101280	12,8	151	101	10	**32.21**
11200101300	13,0	151	101	10	**28.82**
11200101350	13,5	160	108	10	**43.61**
11200101400	14,0	160	108	10	**45.77**
11200101450	14,5	169	114	10	**50.08**
11200101500	15,0	169	114	10	**59.33**
11200101550	15,5	178	120	10	**65.18**
11200101600	16,0	178	120	5	**65.18**

1129

Burghie cilindrice scurte pentru metal DIN 338, tip N, 118°, HSS-G rectificate, pe stanga

- *burghie cilindrice scurte pentru metal, conform DIN 338, tip N, unghi de ascutire 118°*
- *material HSS-G, tratate, rectificate*
- *taiere pe stanga*
- *unghiul spirei 20-30°*
- *toleranta diametrului h8*
- *de la Ø 2 mm cu ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida*
- *destinate pentru gaurire in oteluri, oteluri turnate ne aliate si aliate, cu σr≤800 N/mm² si oteluri pentru tratament termic cu σr≤1100 N/mm², gaurire in fonte, fonte recoapte, fonte grafitate ductile turnate sub presiue si materiale neferoase (aliaje de aluminiu, cupru si bronzuri), mase plastice, materiale sinterizate diverse (nu in piese sinterizate din pulberi de oteluri sau din carburi metalice)*
- *recomandabil a se pot folosi pe masini de gaurit, utilaje stationare si fixe si numai ocazional pe masini de gaurit portabile, electrice sau pneumatice*



PROF I PLUS

DIN	HSS	Typ			800
338	G	N	118°	DIN 1412 C SPLIT POINT	N/mm²

	DIM.	LT	LU	AMB	
11290300100	1,0	34	12	10	5.09
11290300150	1,5	40	18	10	5.55
11290300200	2,0	49	24	10	6.32
11290300240	2,4	57	30	10	6.93
11290300250	2,5	57	30	10	6.93
11290300260	2,6	57	30	10	9.40
11290300300	3,0	61	33	10	9.40
11290300320	3,2	65	36	10	10.02
11290300330	3,3	65	36	10	10.02
11290300340	3,4	70	39	10	10.02
11290300350	3,5	70	39	10	10.02
11290300400	4,0	75	43	10	10.94
11290300420	4,2	75	43	10	13.10
11290300450	4,5	80	47	10	13.10
11290300480	4,8	86	52	10	15.72
11290300500	5,0	86	52	10	15.72
11290300520	5,2	86	52	10	19.26
11290300550	5,5	93	57	10	19.26
11290300600	6,0	93	57	10	20.80
11290300650	6,5	101	63	10	24.96
11290300680	6,8	109	69	10	27.58
11290300690	6,9	109	69	10	27.58
11290300700	7,0	109	69	10	27.58
11290300750	7,5	109	69	10	31.28
11290300800	8,0	117	75	10	36.52
11290300850	8,5	117	75	10	38.99
11290300900	9,0	125	81	10	47.77
11290300950	9,5	125	81	10	50.39
11290301000	10,0	133	87	10	54.70
11290301020	10,2	133	87	10	67.80
11290301050	10,5	133	87	10	67.80
11290301100	11,0	142	94	10	72.89
11290301150	11,5	142	94	10	93.69
11290301200	12,0	151	101	10	99.86
11290301250	12,5	151	101	10	105.87
11290301300	13,0	151	101	5	108.49



1110

Burghie cilindrice scurte pentru metal DIN 338, tip N, 118°, HSS-G rectificate, cu coada redusa

- *burghie cilindrice scurte pentru metal, conform DIN 338, tip N, unghi de ascutire 118°*
- *material HSS-G, tratate, rectificate*
- *taiere pe dreapta*
- *unghiul spirei 20-30°*
- *toleranta diametrului h8*
- *cu ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida*
- *destinatie si utilizare idem Art 1120 si Art 1120SB*



DIN	HSS	Typ			800
338	G	N	118°	DIN 1412 C SPLIT POINT	N/mm²

	DIM.	LT	LU	COADA	AMB	
11100101050	10,50	133	87	10 x 30	5	22.96
11100101100	11,00	142	94	10 x 30	5	22.96
11100101150	11,50	142	94	10 x 30	5	26.66
11100101200	12,00	151	101	10 x 30	5	30.67
11100101250	12,50	151	101	10 x 30	5	34.06
11100101300	13,00	151	101	10 x 30	5	36.68
11100101350	13,50	160	108	10 x 30	5	38.52
11100101400	14,00	160	108	10 x 30	5	41.30
11100101450	14,50	169	114	10 x 30	5	47.62
11100101500	15,00	169	114	10 x 30	5	50.70
11100101550	15,50	178	120	10 x 30	5	54.09
11100101600	16,00	178	120	10 x 30	5	56.55
11100101650	16,50	184	125	13 x 35	1	63.18
11100101700	17,00	184	125	13 x 35	1	65.03
11100101750	17,50	191	130	13 x 35	1	67.96
11100101800	18,00	191	130	13 x 35	1	69.50
11100101850	18,50	198	135	13 x 35	1	74.12
11100101900	19,00	198	135	13 x 35	1	78.90
11100101950	19,50	205	140	13 x 35	1	81.67
11100102000	20,00	205	140	13 x 35	1	84.14
11100102050	20,50	225	145	13 x 40	1	106.17
11100102100	21,00	225	145	13 x 40	1	119.58
11100102150	21,50	230	150	13 x 40	1	119.58
11100102200	22,00	230	150	13 x 40	1	124.05
11100102250	22,50	230	155	13 x 40	1	129.13
11100102300	23,00	230	155	13 x 40	1	142.39
11100102350	23,50	230	155	13 x 40	1	142.39
11100102400	24,00	250	160	13 x 40	1	160.11
11100102450	24,50	250	160	13 x 40	1	160.11
11100102500	25,00	250	160	13 x 40	1	164.58

1110 SB

Burghie cilindrice scurte pentru metal DIN 338, tip N, 118°, HSS-G rectificate, cu coada redusa, husa

- *caracteristici si utilizare idem Art, 1110*



DIN	HSS	Typ			800
338	G	N	118°	DIN 1412 C SPLIT POINT	N/mm²

	DIM.	LT	LU	COADA	AMB	
11100701050	10,50	133	87	10 x 30	1	25.73
11100701100	11,00	142	94	10 x 30	1	25.73
11100701150	11,50	142	94	10 x 30	1	29.12
11100701200	12,00	151	101	10 x 30	1	33.29
11100701250	12,50	151	101	10 x 30	1	36.68
11100701300	13,00	151	101	10 x 30	1	39.14
11100701350	13,50	160	108	10 x 30	1	41.45
11100701400	14,00	160	108	10 x 30	1	43.76
11100701450	14,50	169	114	10 x 30	1	50.08
11100701500	15,00	169	114	10 x 30	1	53.47
11100701550	15,50	178	120	10 x 30	1	56.71
11100701600	16,00	178	120	10 x 30	1	59.17
11100701650	16,50	184	125	13 x 35	1	65.80
11100701700	17,00	184	125	13 x 35	1	67.65
11100701750	17,50	191	130	13 x 35	1	70.42
11100701800	18,00	191	130	13 x 35	1	72.12
11100701850	18,50	198	135	13 x 35	1	76.74
11100701900	19,00	198	135	13 x 35	1	81.67
11100701950	19,50	205	140	13 x 35	1	84.29
11100702000	20,00	205	140	13 x 35	1	86.91

1201

Burghie cilindrice scurte pentru metal DIN 338, HSS-G rectificate, cu varf centrare, Turbocraft®

• burghie cilindrice scurte pentru metal, Turbocraft®, conform DIN 338, tip N, 130°, material HSS, tratate termic, rectificate, finisaj Bi-Color
• taiere pe dreapta, unghiul spirei 20-30°, toleranta diametrului h8
• de la Ø 3,3 mm cu ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C si fragmentatori de aschii, pentru o aschiere mai usoara, micsorarea fortei de aschiere si o gaurire mai rapida
• de la Ø 5,0 mm coada cu aplatizari anti alunecare
• destinate pentru gaurire in oteluri ne aliate si slab aliate, cu σr≤800 N/mm², si oteluri pentru tratament termic cu σr≤1100 N/mm², oteluri inoxidabile, gaurire in fonte si materiale neferoase (aliaje de aluminiu, cupru si bronzuri), mase plastice, materiale sinterizate diverse (nu in piese sinterizate din pulberi de oteluri sau din carburi metalice), lemn, plastic
• recomandabil a se pot folosi pe masini de gaurit, utilaje stationare si fixe, dar si pe masini de gaurit portabile, cu acumulator



PROF I BASIC

BOHRCRAFT | DIN 338 | HSS G | Typ N | TURBO | 900 N/mm²

	DIM.	LT	LU	AMB	
12010300100	1,00	34	12	10	**3.54**
12010300150	1,50	40	18	10	**3.54**
12010300200	2,00	49	24	10	**4.01**
12010300250	2,50	57	30	10	**4.01**
12010300300	3,00	61	33	10	**4.78**
12010300310	3,10*	65	36	10	**5.70**
12010300320	3,20*	65	36	10	**5.70**
12010300330	3,30	65	36	10	**5.70**
12010300350	3,50	70	39	10	**5.70**
12010300400	4,00	75	43	10	**7.24**
12010300410	4,10*	75	43	10	**8.32**
12010300420	4,20*	75	43	10	**8.32**
12010300450	4,50	80	47	10	**8.32**
12010300480	4,80*	86	52	10	**10.32**
12010300500	5,00	86	52	10	**10.32**
12010300510	5,10*	86	52	10	**13.10**
12010300520	5,20*	86	52	10	**13.10**
12010300550	5,50	93	57	10	**13.10**
12010300600	6,00	93	57	10	**14.64**
12010300650	6,50	101	63	10	**15.72**
12010300680	6,80*	109	69	10	**19.42**
12010300700	7,00	109	69	10	**19.42**
12010300750	7,50	109	69	10	**21.88**
12010300800	8,00	117	75	10	**27.58**
12010300850	8,50	117	75	10	**29.59**
12010300900	9,00	125	81	10	**34.21**
12010300950	9,50	125	81	10	**37.45**
12010301000	10,00	133	87	10	**43.46**
12010301050	10,50	133	87	5	**43.61**
12010301100	11,00	142	94	5	**50.54**
12010301150	11,50	142	94	5	**54.86**
12010301200	12,00	151	101	5	**62.72**
12010301250	12,50	151	101	5	**67.96**
12010301300	13,00	151	101	5	**73.20**

** finisaj lucios*

1130

Burghie cilindrice scurte pentru metal DIN 338, tip N, 118°, HSS-TiN rectificate

• burghie cilindrice scurte pentru metal, conform DIN 338, tip N, unghi de ascutire 118°
• material HSS-G, tratate, rectificate, titanizate
• taiere pe dreapta, unghiul spirei 20-30°, toleranta diametrului h8
• de la Ø 2 mm cu ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida
• destinate pentru gaurire in oteluri ne aliate si slab aliate, cu σr≤800 N/mm², oteluri pentru tratament termic cu σr≤1100 N/mm², gaurire in fonte si materiale neferoase (aliaje de cupru si bronzuri), mase plastice
• recomandabil a se pot folosi pe masini de gaurit, utilaje stationare si fixe si numai ocazional pe masini de gaurit portabile, electrice sau pneumatice



BOHRCRAFT | DIN 338 | HSS G | TiN | Typ N | 118° | SPLIT POINT DIN 1412 C | 850 N/mm²

	DIM.	LT	LU	AMB	
11300100100	1,00	34	12	10	**2.00**
11300100150	1,50	40	18	10	**2.00**
11300100200	2,00	49	24	10	**2.16**
11300100250	2,50	57	30	10	**2.31**
11300100300	3,00	61	33	10	**2.62**
11300100320	3,20	65	36	10	**2.77**
11300100330	3,30	65	36	10	**2.77**
11300100350	3,50	70	39	10	**2.77**
11300100400	4,00	75	43	10	**3.70**
11300100410	4,10	75	43	10	**5.09**
11300100420	4,20	75	43	10	**5.09**
11300100450	4,50	80	47	10	**5.09**
11300100480	4,80	86	52	10	**6.47**
11300100500	5,00	86	52	10	**5.55**
11300100520	5,20	86	52	10	**6.16**
11300100550	5,50	93	57	10	**6.16**
11300100600	6,00	93	57	10	**7.40**
11300100650	6,50	101	63	10	**8.01**
11300100680	6,80	109	69	10	**9.71**
11300100700	7,00	109	69	10	**9.71**
11300100750	7,50	109	69	10	**11.87**
11300100800	8,00	117	75	10	**13.71**
11300100850	8,50	117	75	10	**14.49**
11300100900	9,00	125	81	10	**16.18**
11300100950	9,50	125	81	10	**17.72**
11300101000	10,00	133	87	10	**19.88**
11300101020	10,20	133	87	5	**23.89**
11300101050	10,50	133	87	5	**20.96**
11300101100	11,00	142	94	5	**23.89**
11300101150	11,50	142	94	5	**25.73**
11300101200	12,00	151	101	5	**28.82**
11300101250	12,50	151	101	5	**30.36**
11300101300	13,00	151	101	5	**34.21**

Acoperiri disponibile

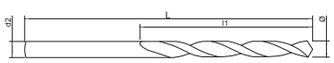
	Culoare	Duritate	Grosime strat	Temperatura maxima suportata	Racire	Caracteristici
TiN	galben-auriu	ca. 2500 HV	pana la 2µm	450° – 500° C	recomandat	pentru suprafete cu inalta duritate
TiCN	albastru-gri	ca. 3000 HV	pana la 4µm	350° – 400° C	recomandat	reduce frecarea
TiALN	negru-violet	ca. 3300 HV	pana la 4µm	750° – 800° C	fara	pentru gaurire uscata
VAP	negru	–	–	–	recomandat	reduce posibilitatea de lipire a aschiei

1145411

Burghie cilindrice scurte pentru metal, conform DIN 338, tip N, HSS, "Furius", tratament special

- *burghie cilindrice scurte pentru metal, conform DIN 338, tip N, unghi de ascutire 135°*
- *material HSS-G rectificate, tratate termic si tratament special de suprafata „FUSIO" cu Ti_2CN in stratul superficial pe 2 – 4 µm ridicand duritatea superficiala pana la 3200 HV*
- *taiere pe dreapta*
- *unghiul spirei 20-30°*
- *toleranta diametrului h8*
- *de la Ø 2 mm cu ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida*
- *destinate pentru gaurire in oteluri ne aliate si slab aliate cu σr≤700 N/mm² si in oteluri pentru tratament termic cu σr≤950 N/mm², gaurire in fonte si materiale neferoase (aliaje de aluminiu, cupru si bronzuri), materiale sinterizate diverse (nu in piese sinterizate din pulberi de oteluri sau din carburi metalice)*
- *recomandabil a se folosi pe masini de gaurit, utilaje stationare si fixe si numai ocazional pe masini de gaurit portabile, electrice sau pneumatice*





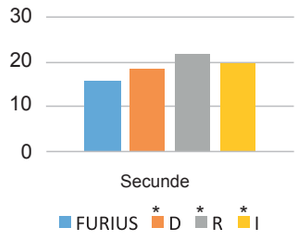
TIVOLY

135° | N TYPE | h8 | HSS | FUSIO COATED | DIN 338 | 3xd

	Ø	d2	L	l1	
11454110050	0,5	0,5	22	6	16.07
11454110060	0,6	0,6	24	7	16.29
11454110070	0,7	0,7	28	9	15.43
11454110080	0,8	0,8	30	10	14.35
11454110090	0,9	0,9	32	11	13.43
11454110100	1,0	1	34	12	12.14
11454110110	1,1	1,1	36	14	11.06
11454110120	1,2	1,2	38	16	13.00
11454110130	1,3	1,3	38	16	10.79
11454110140	1,4	1,4	40	18	11.06
11454110150	1,5	1,5	40	18	9.49
11454110160	1,6	1,6	43	20	9.76
11454110170	1,7	1,7	43	20	11.06
11454110180	1,8	1,8	46	22	9.28
11454110190	1,9	1,9	46	22	9.06
11454110200	2,0	2	49	24	7.87
11454110210	2,1	2,1	49	24	9.06
11454110220	2,2	2,2	53	27	9.06
11454110230	2,3	2,3	53	27	9.06
11454110240	2,4	2,4	57	30	10.09
11454110250	2,5	2,5	57	30	9.87
11454110260	2,6	2,6	57	30	9.98
11454110270	2,7	2,7	61	33	14.51
11454110280	2,8	2,8	61	33	12.30
11454110290	2,9	2,9	61	33	10.09
11454110300	3,0	3	61	33	10.09
11454110310	3,1	3,1	65	36	11.16
11454110320	3,2	3,2	65	36	11.00
11454110325	3,25	3,25	65	36	12.46
11454110330	3,3	3,3	65	36	11.81
11454110340	3,4	3,4	70	39	12.89
11454110350	3,5	3,5	70	39	11.22
11454110360	3,6	3,6	70	39	14.40
11454110370	3,7	3,7	70	39	11.87
11454110380	3,8	3,8	75	43	13.00
11454110390	3,9	3,9	75	43	13.97
11454110400	4,0	4	75	43	12.46
11454110410	4,1	4,1	75	43	13.43
11454110420	4,2	4,2	75	43	13.43
11454110425	4,25	4,25	75	43	14.78
11454110430	4,3	4,3	80	47	14.29
11454110440	4,4	4,4	80	47	16.67
11454110450	4,5	4,5	80	47	13.59
11454110460	4,6	4,6	80	47	17.80
11454110470	4,7	4,7	80	47	16.23
11454110480	4,8	4,8	86	52	14.83
11454110490	4,9	4,9	86	52	14.99
11454110500	5,0	5	86	52	14.56
11454110510	5,1	5,1	86	52	16.88
11454110520	5,2	5,2	86	52	16.88
11454110525	5,25	5,25	86	52	21.36
11454110530	5,3	5,3	86	52	16.88
11454110540	5,4	5,4	93	57	18.66
11454110550	5,5	5,5	93	57	18.66
11454110560	5,6	5,6	93	57	21.63
11454110570	5,7	5,7	93	57	20.12
11454110580	5,8	5,8	93	57	19.47
11454110590	5,9	5,9	93	57	20.12
11454110600	6,0	6	93	57	19.47
11454110610	6,1	6,1	101	63	23.79
11454110620	6,2	6,2	101	63	23.79
11454110630	6,3	6,3	101	63	24.11
11454110640	6,4	6,4	101	63	24.65
11454110650	6,5	6,5	101	63	24.27
11454110660	6,6	6,6	101	63	25.19
11454110670	6,7	6,7	101	63	25.62
11454110675	6,75	6,75	109	69	30.26
11454110680	6,8	6,8	109	69	30.26
11454110690	6,9	6,9	109	69	34.95
11454110700	7,0	7	109	69	28.15
11454110710	7,1	7,1	109	69	30.26
11454110720	7,2	7,2	109	69	30.80
11454110730	7,3	7,3	109	69	30.80
11454110740	7,4	7,4	109	69	35.81
11454110750	7,5	7,5	109	69	29.23
11454110760	7,6	7,6	117	69	33.55
11454110770	7,7	7,7	117	75	36.84
11454110780	7,8	7,8	117	75	33.92
11454110790	7,9	7,9	117	75	34.36
11454110800	8,0	8	117	75	34.36
11454110810	8,1	8,1	117	75	37.70
11454110820	8,2	8,2	117	75	38.67
11454110830	8,3	8,3	117	75	38.35
11454110840	8,4	8,4	117	75	39.64
11454110850	8,5	8,5	117	75	36.30
11454110860	8,6	8,6	125	81	44.66
11454110870	8,7	8,7	125	81	44.66
11454110880	8,8	8,8	125	81	44.66
11454110890	8,9	8,9	125	81	45.52
11454110900	9,0	9	125	81	41.42
11454110910	9,1	9,1	125	81	45.52
11454110920	9,2	9,2	125	81	45.52
11454110930	9,3	9,3	125	81	47.68
11454110940	9,4	9,4	125	81	47.68
11454110950	9,5	9,5	125	81	44.33
11454110960	9,6	9,6	133	87	49.40
11454110970	9,7	9,7	133	87	49.40
11454110980	9,8	9,8	133	87	51.56
11454110990	9,9	9,9	133	87	51.56
11454111000	10,0	10	133	87	47.73
11454111010	10,1	10,1	133	87	64.34
11454111020	10,2	10,2	133	87	62.35
11454111025	10,25	10,25	133	87	78.58
11454111030	10,3	10,3	133	87	74.86
11454111040	10,4	10,4	133	87	74.86
11454111050	10,5	10,5	133	87	63.43
11454111100	11,0	11	142	94	79.01
11454111150	11,5	11,5	142	94	83.76
11454111200	12,0	12	151	101	90.34
11454111250	12,5	12,5	151	101	98.27
11454111300	13,0	13	151	101	101.56

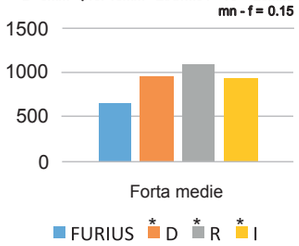
TEST DE VITEZA

Test viteza realizat pe masini electrice portative: D=6mm - prof 10mm - A37 - 30KN - 1100 R/pm



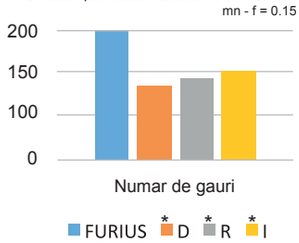
TEST DE EFORT

Test forta de aschiere efectuat pe CNC: D=6mm - prof 18mm - 25CrMo4 - Vc = 28mm/mn - f = 0.15



TEST DE DURABILITATE

Test de durabilitate realizat pe CNC: D=6mm - prof 18mm - 25CrMo4 - Vc = 28mm/mn - f = 0.15



*Produs de nivel calitativ echivalent.

NOILE BURGHIE HSS FURIUS

INOVATIE SI PERFORMANTA

Cu o experienta de peste 90 de ani in domeniul fabricatiei de burghie pentru metal, Tivoly propune cea mai noua invovatie in domeniul gauririi in oteluri de inalta rezistenta.



A EXPERIENTA TIVOLY

Datorita experientei sale vaste in domeniu productiei de burghie, Tivoly ofera solutii adaptate pentru cerintele utilizatorului.

B NOTA TIVOLY

Gaurirea otelurilor rezistente este cea mai frecventa operatiune in lucrari de mecanica, lacatuserie sau
mentenanta.

- La utilizarea cu masini cu comanda numerica, asigura o durata de viata foarte lunga si o productivitate crescuta.
- La utilizarea cu masini electrice portative, viteza de gaurire si forta axiala reduse, asigura munca de calitate si previne aparitia afectiunilor musculo-scheletice pentru utilizatori (AMS).

C INOVATIE TIVOLY

Echipa de cercetare si dezvoltare Tivoly a proiecat noul burghiu Tivoly printr-o combinatie exclusiva a unui design geometric si al acoperirii PDV noi, pentru un nivel exceptional de performanta.

D ACOPERIRE PVD «FUSIO»

- Realizata cu cea mai recenta tehnologie PVD, acoperirea FUSIO,
special dezvoltata pentru burghiele
Furius, garanteaza:
- Confort
- Rapiditate
- Satbilitate
- Rezistenta

Datorita structurii multi-strat si al compozitiei speciale, noua acoperire asigura:

- Durabilitate superioara
- Duritate ridicata
- Coeficient redus de frecare

Reduce uzura pe muchiile de taiere in timpul gauririi otelurilor rezistente (<950 N/mm2). Perfect pentru aplicatii de gaurire cu intreruperi (cu masini elecrice portative), contribuie la performanta exceptionala a burghiului.

E CONDITII DE GAURIRE

Pe fiecare ambalaj Tivoly sunt indicate conditiile de gaurire in functie de diametrul burghiului.



F MARCAJ LASER

Inscriptionare laser cu caractere mari pentru citirea usoara a principalelor informatii despre produs.

Cu intrebuintarea la gaurire a burghielor Furius, utilizatorul contribuie la protejarea mediului inconjurator:

- *Reducerea consumului de energie electrica.*
- *Cresterea duratei de utilizare a burghielor*
- *Previne suprasolicitarea masinilor electrice si acumulatorilor*
- *Produs cu utilizare facila, previne aparitia afectiunilor utilizatorului si creste productivitatea muncii.*

FABRICAT IN FRANTA
ECO CONCEPT



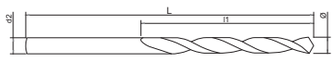
ENGAGEMENT DURABLE DEVELOPPEMENT

1145501

Burghie cilindrice scurte pentru metal DIN 338 HSS-E (Co 5%) tip N, tratament special "Gold"

• burghiu cilindrice scurte pentru metal DIN 338 HSS-E (Co 5%) tip N, tratament special "Gold"
• material HSS-E (Co 5%), rectificate, tratate termic si tratament special de suprafata "Gold" taiere pe dreapta
• unghi de ascutire 135°, unghiul spirei 20-30°
• toleranta diametrului h8
• de la Ø 2 mm cu ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida
• destinate pentru gaurire in oteluri ne aliate si slab aliate, in oteluri pentru tratament termic si ideal pentru gauriri in otel inoxidabil austenitic cu σr≤950 N/mm², gaurire in materiale neferoase (aliaje de aluminiu, cupru si bronzuri), materiale sinterizate diverse (nu in piese sinterizate din pulberi de oteluri sau din carburi metalice)
• tratamentul special de suprafata "Gold" faciliteaza disiparea caldurii, alunecara aschiilor si implicit o viteza de taiere mai mare si o durabilitate sporita la utilizari dificile.
• recomandabil a se folosi pe masini de gaurit, utilaje stationare si fixe si numai ocazional pe masini de gaurit portabile, electrice sau pneumatice





TIVOLY

HSS E5 | GOLD TREATED | DIN 338 | 3xd | 135° | N TYPE | h8

	Ø	d2	L	l1	
11455010100	1.00	1	34	12	**6.40**
11455010110	1.10	1,1	36	14	**5.99**
11455010120	1.20	1,2	38	16	**6.25**
11455010125	1.25	1,25	38	16	**6.87**
11455010130	1.30	1,3	38	16	**5.99**
11455010140	1.40	1,4	40	18	**5.99**
11455010150	1.50	1,5	40	18	**5.43**
11455010160	1.60	1,6	43	20	**6.81**
11455010170	1.70	1,7	43	20	**6.81**
11455010175	1.75	1,75	46	22	**7.12**
11455010180	1.80	1,8	46	22	**6.87**
11455010190	1.90	1,9	46	22	**6.87**
11455010200	2.00	2	49	24	**5.99**
11455010210	2.10	2,1	49	24	**7.58**
11455010220	2.20	2,2	53	27	**7.58**
11455010225	2.25	2,25	53	27	**7.33**
11455010230	2.30	2,3	53	27	**7.79**
11455010240	2.40	2,4	57	30	**7.79**
11455010250	2.50	2,5	57	30	**6.76**
11455010260	2.60	2,6	57	30	**7.33**
11455010270	2.70	2,7	61	33	**7.33**
11455010275	2.75	2,75	61	33	**7.33**
11455010280	2.80	2,8	61	33	**7.48**
11455010290	2.90	2,9	61	33	**7.48**
11455010300	3.00	3	61	33	**6.10**
11455010310	3.10	3,1	65	36	**7.89**
11455010320	3.20	3,2	65	36	**7.58**
11455010325	3.25	3,25	65	36	**7.58**
11455010330	3.30	3,3	65	36	**7.84**
11455010340	3.40	3,4	70	39	**8.04**
11455010350	3.50	3,5	70	39	**7.58**
11455010360	3.60	3,6	70	39	**8.45**
11455010370	3.70	3,7	70	39	**8.45**
11455010375	3.75	3,75	70	39	**8.56**
11455010380	3.80	3,8	75	43	**8.40**
11455010390	3.90	3,9	75	43	**8.40**
11455010400	4.00	4	75	43	**7.84**
11455010410	4.10	4,1	75	43	**10.66**
11455010420	4.20	4,2	75	43	**9.33**
11455010425	4.25	4,25	75	43	**8.66**
11455010430	4.30	4,3	80	47	**9.94**
11455010440	4.40	4,4	80	47	**9.94**
11455010450	4.50	4,5	80	47	**8.66**
11455010460	4.60	4,6	80	47	**11.12**
11455010470	4.70	4,7	80	47	**11.12**
11455010475	4.75	4,75	80	47	**10.35**
11455010480	4.80	4,8	86	52	**11.17**
11455010490	4.90	4,9	86	52	**11.17**

	Ø	d2	L	l1	
11455010500	5.00	5	86	52	**9.74**
11455010510	5.10	5,1	86	52	**11.02**
11455010520	5.20	5,2	86	52	**11.99**
11455010525	5.25	5,25	86	52	**11.27**
11455010530	5.30	5,3	86	52	**12.45**
11455010540	5.40	5,4	93	57	**12.45**
11455010550	5.50	5,5	93	57	**12.19**
11455010560	5.60	5,6	93	57	**15.17**
11455010570	5.70	5,7	93	57	**15.17**
11455010575	5.75	5,75	93	57	**13.22**
11455010580	5.80	5,8	93	57	**14.71**
11455010590	5.90	5,9	93	57	**14.71**
11455010600	6.00	6	93	57	**13.17**
11455010610	6.10	6,1	101	63	**18.34**
11455010620	6.20	6,2	101	63	**18.34**
11455010625	6.25	6,25	101	63	**15.58**
11455010630	6.30	6,3	101	63	**18.14**
11455010640	6.40	6,4	101	63	**18.14**
11455010650	6.50	6,5	101	63	**16.19**
11455010660	6.60	6,6	101	63	**19.32**
11455010670	6.70	6,7	101	63	**19.32**
11455010675	6.75	6,75	109	69	**18.14**
11455010680	6.80	6,8	109	69	**20.70**
11455010690	6.90	6,9	109	69	**20.70**
11455010700	7.00	7	109	69	**17.16**
11455010710	7.10	7,1	109	69	**24.39**
11455010720	7.20	7,2	109	69	**24.39**
11455010725	7.25	7,25	109	69	**19.98**
11455010730	7.30	7,3	109	69	**22.60**
11455010740	7.40	7,4	109	69	**22.60**
11455010750	7.50	7,5	109	69	**19.32**
11455010760	7.60	7,6	117	69	**27.62**
11455010770	7.70	7,7	117	75	**26.85**
11455010775	7.75	7,75	117	75	**23.06**
11455010780	7.80	7,8	117	75	**26.08**
11455010790	7.90	7,9	117	75	**26.08**
11455010800	8.00	8	117	75	**21.83**
11455010810	8.10	8,1	117	75	**30.13**
11455010820	8.20	8,2	117	75	**30.13**
11455010825	8.25	8,25	117	75	**24.75**
11455010830	8.30	8,3	117	75	**30.64**
11455010840	8.40	8,4	117	75	**30.64**
11455010850	8.50	8,5	117	75	**23.21**
11455010860	8.60	8,6	125	81	**32.74**
11455010870	8.70	8,7	125	81	**32.74**
11455010875	8.75	8,75	125	81	**28.03**
11455010880	8.80	8,8	125	81	**32.54**
11455010890	8.90	8,9	125	81	**32.54**
11455010900	9.00	9	125	81	**28.23**
11455010910	9.10	9,1	125	81	**38.33**
11455010920	9.20	9,2	125	81	**38.33**
11455010925	9.25	9,25	125	81	**31.77**
11455010930	9.30	9,3	125	81	**37.04**
11455010940	9.40	9,4	125	81	**37.04**
11455010950	9.50	9,5	125	81	**29.62**
11455010960	9.60	9,6	133	87	**44.42**
11455010970	9.70	9,7	133	87	**44.42**
11455010980	9.80	9,8	133	87	**45.04**
11455010990	9.90	9,9	133	87	**45.09**
11455011000	10.00	10	133	87	**32.02**

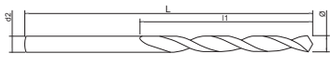
	Ø	d2	L	l1	
11455011010	10.10	10,1	133	87	**49.03**
11455011020	10.20	10,2	133	87	**49.03**
11455011025	10.25	10,25	133	87	**73.73**
11455011030	10.30	10,3	133	87	**51.03**
11455011040	10.40	10,4	133	87	**51.03**
11455011050	10.50	10,5	133	87	**42.22**
11455011100	11.00	11	142	94	**48.83**
11455011150	11.50	11,5	142	94	**56.57**
11455011200	12.00	12	151	101	**57.95**
11455011250	12.50	12,5	151	101	**65.74**
11455011300	13.00	13	151	101	**73.63**
11455011350	13.50	13,5	160	108	**82.60**
11455011400	14.00	14,0	160	108	**87.62**
11455011500	15.00	15,0	168	114	**122.66**
11455011600	16.00	16,0	178	120	**148.03**

1145561

Burghiu cilindrice scurte pentru metal DIN 338 HSS-E (Co 5%) tip N, cu coada redusa tratament special "Gold"

- *burghiu cilindrice scurte pentru metal DIN 338 HSS-E (Co 5%) tip N, tratament special "Gold", cu coada redusa*
- *material HSS-E (Co 5%), rectificate, tratate termic si tratament special de suprafata "Gold" taiere pe dreapta*
- *unghi de ascutire 135°, unghiul spirei 20-30°,*
- *toleranta diametrului h8*
- *de la Ø 2 mm cu ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida*
- *destinate pentru gaurire in oteluri ne aliate si slab aliate, in oteluri pentru tratament termic si ideal pentru gauriri in otel inoxidabil austenitic cu σr≤950 N/mm², gaurire in materiale neferoase (aliaje de aluminiu, cupru si bronzuri), materiale sinterizate diverse (nu in piese sinterizate din pulberi de oteluri sau din carburi metalice)*
- *tratamentul special de suprafata "Gold" faciliteaza disiparea caldurii, alunecara aschiilor si implicit o viteza de taiere mai mare si o durabilitate sporita la utilizari dificile.*
- *recomandabil a se folosi pe masini de gaurit, utilaje stationare si fixe si numai ocazional pe masini de gaurit portabile, electrice sau pneumatice*





TIVOLY

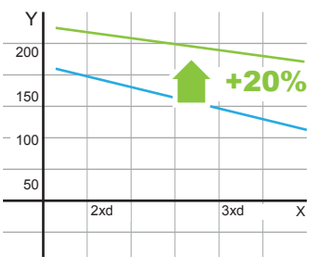
HSS E5 | GOLD TREATED | DIN 338 | 3xd | 135° | N TYPE | h8

	Ø	d2	L	l1	
11455611400	14,00	12	160	108	**174.32**
11455611500	15,00	12	169	114	**193.46**
11455611600	16,00	12	178	120	**212.88**
11455611700	17,00	12	184	125	**253.98**
11455611800	18,00	12	191	130	**278.36**
11455611900	19,00	12	198	135	**302.52**
11455612000	20,00	12	205	140	**322.53**

TEST DURATA VIATA

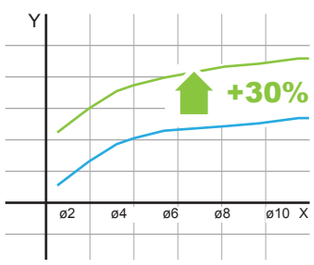
Durata de viata cu lubrefiere:
d=6mm - 304L - Vc = 12m/mn - f = 0.10

■ Ascutire 4 fete plan
■ Ascutire varf de centrare
x: adancime gaurire
y: nr. de gauri



TEST DE PRODUCTIVITATE

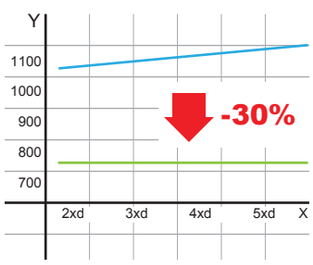
■ Ascutire 4 fete plan
■ Ascutire varf de centrare
x: diametru gaura
y: avans



TEST DE EFORT

Masurarea efortului cu lubrefiere:
d=6mm - 304L - Vc = 12m/mn - f = 0.10

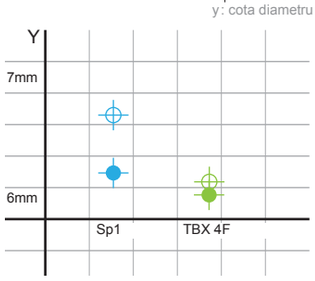
■ Ascutire 4 fete plan
■ Ascutire varf de centrare
x: adancime gaurire
y: efort mediu Fz



TEST COTA DIAMETRU

Abatere de la geometria gaurii:
d=6mm - 304L - Vc = 8m/mn - f = 0.1

■ Ascutire 4 fete plan
■ Ascutire varf de centrare
⊕ ø la intrare
⊕ ø la iesire
y: cota diametru



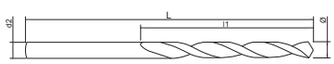
■ Ascutire 4 fete: medie constanta fata de NEW CUTINOX 4F | ■ Ascutire varf centrare (Sp1): medie constanta fata de produsul concurent

1145611

Burghiu cilindrice scurte pentru metal DIN 338 HSCOB tip N, tratament special TBX 4F "Blade"

• burghie cilindrice scurte pentru metal, conform DIN 338, tip N, TBX 4F, HSS-E (Co5%)
• material HSS-E (Co 5%), rectificate, tratate termic si tratament special de suprafata "Blade coated" taiere pe dreapta
• unghi de ascutire 135°, unghiul spirei 20-30°
• toleranta diametrului h8
• de la Ø 2 mm cu ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida
• destinate pentru gaurire in oteluri ne aliate si slab aliate, in oteluri pentru tratament termic si ideal pentru gauriri in otel inoxidabil austenitic (304L & 316L) cu σr≤950 N/mm², gaurire in materiale neferoase (aliaje de aluminiu, cupru si bronzuri), materiale sinterizate diverse (nu in piese sinterizate din pulberi de oteluri sau din carburi metalice)
• tratamentul special de suprafata "Blade coated" faciliteaza disiparea caldurii, alunecara aschiilor si implicit o viteza de taiere mai mare si o durabilitate sporita la utilizari dificile.
• recomandabil a se folosi pe masini de gaurit, utilaje stationare si fixe si numai ocazional pe masini de gaurit portabile, electrice sau pneumatice





TIVOLY

HSS E5 | BLADE COATED | DIN 338 | 3xd | 135° | NFO TYPE | h8

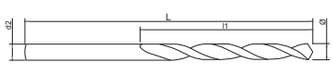
	Ø	d2	L	l1	
11456110100	1,0	1,0	34	12	12.67
11456110110	1,1	1,1	36	14	18.77
11456110120	1,2	1,2	38	16	21.95
11456110130	1,3	1,3	38	16	18.12
11456110140	1,4	1,4	40	18	18.77
11456110150	1,5	1,5	40	18	13.11
11456110160	1,6	1,6	43	20	16.40
11456110170	1,7	1,7	43	20	18.77
11456110180	1,8	1,8	46	22	15.48
11456110190	1,9	1,9	46	22	15.32
11456110200	2,0	2	49	24	13.21
11456110210	2,1	2,1	49	24	15.32
11456110220	2,2	2,2	53	27	15.32
11456110230	2,3	2,3	53	27	15.32
11456110240	2,4	2,4	57	30	17.15
11456110250	2,5	2,5	57	30	16.72
11456110260	2,6	2,6	57	30	17.10
11456110270	2,7	2,7	61	33	17.10
11456110280	2,8	2,8	61	33	17.31
11456110290	2,9	2,9	61	33	22.76
11456110300	3,0	3	61	33	14.78
11456110310	3,1	3,1	65	36	18.34
11456110320	3,2	3,2	65	36	16.94
11456110330	3,3	3,3	65	36	19.25
11456110340	3,4	3,4	70	39	19.25
11456110350	3,5	3,5	70	39	17.74
11456110360	3,6	3,6	70	39	24.16
11456110370	3,7	3,7	70	39	24.43
11456110380	3,8	3,8	75	43	24.65
11456110390	3,9	3,9	75	43	25.46
11456110400	4,0	4	75	43	19.31
11456110410	4,1	4,1	75	43	21.84
11456110420	4,2	4,2	75	43	21.84
11456110430	4,3	4,3	80	47	23.95
11456110440	4,4	4,4	80	47	28.69
11456110450	4,5	4,5	80	47	22.38
11456110460	4,6	4,6	80	47	29.12
11456110470	4,7	4,7	80	47	25.35
11456110480	4,8	4,8	86	52	25.35
11456110490	4,9	4,9	86	52	25.73
11456110500	5,0	5	86	52	23.68
11456110510	5,1	5,1	86	52	27.13
11456110520	5,2	5,2	86	52	27.13
11456110530	5,3	5,3	86	52	30.04
11456110540	5,4	5,4	93	57	39.64
11456110550	5,5	5,5	93	57	31.61
11456110560	5,6	5,6	93	57	35.81
11456110570	5,7	5,7	93	57	37.21
11456110580	5,8	5,8	93	57	33.66
11456110590	5,9	5,9	93	57	38.02
11456110600	6,0	6	93	57	32.63
11456110610	6,1	6,1	101	63	36.30
11456110620	6,2	6,2	101	63	36.30
11456110630	6,3	6,3	101	63	36.84
11456110640	6,4	6,4	101	63	41.85
11456110650	6,5	6,5	101	63	37.38
11456110660	6,6	6,6	101	63	48.65
11456110670	6,7	6,7	101	63	39.91
11456110680	6,8	6,8	109	69	50.05
11456110690	6,9	6,9	109	69	48.81
11456110700	7,0	7	109	69	45.09
11456110710	7,1	7,1	109	69	49.57
11456110720	7,2	7,2	109	69	51.02
11456110730	7,3	7,3	109	69	51.02
11456110740	7,4	7,4	109	69	51.51
11456110750	7,5	7,5	109	69	47.25
11456110760	7,6	7,6	117	75	55.93
11456110770	7,7	7,7	117	75	60.46
11456110780	7,8	7,8	117	75	56.58
11456110790	7,9	7,9	117	75	58.03
11456110800	8,0	8	117	75	53.88
11456110810	8,1	8,1	117	75	59.22
11456110820	8,2	8,2	117	75	60.89
11456110830	8,3	8,3	117	75	60.30
11456110840	8,4	8,4	117	75	62.78
11456110850	8,5	8,5	117	75	56.79
11456110860	8,6	8,6	125	81	72.87
11456110870	8,7	8,7	125	81	72.87
11456110880	8,8	8,8	125	81	72.87
11456110890	8,9	8,9	125	81	74.59
11456110900	9,0	9	125	81	58.03
11456110910	9,1	9,1	125	81	74.59
11456110920	9,2	9,2	125	81	74.59
11456110930	9,3	9,3	125	81	78.74
11456110940	9,4	9,4	125	81	78.74
11456110950	9,5	9,5	125	81	77.13
11456110960	9,6	9,6	133	87	82.52
11456110970	9,7	9,7	133	87	82.52
11456110980	9,8	9,8	133	87	86.51
11456110990	9,9	9,9	133	87	86.51
11456111000	10,0	10	133	87	82.90
11456111020	10,2	10,2	133	87	100.43
11456111050	10,5	10,5	133	87	89.32
11456111100	11,0	11	142	94	98.43
11456111150	11,5	11,5	142	94	105.71
11456111200	12,0	12	151	101	113.80
11456111250	12,5	12,5	151	101	122.54
11456111300	13,0	13	151	101	125.99
11456111400	14,0	14	160	108	240.39
11456111500	15,0	15	169	114	259.53
11456111600	16,0	16	178	120	311.09
11456111700	17,0	17	184	125	349.01
11456111800	18,0	18	191	130	419.61
11456111900	19,0	19	298	135	462.81
11456112000	20,0	20	205	140	582.22

1146852

Burghie cilindrice scurte pentru metal DIN 338 SLR® tip NFO

• burghie cilindrice scurte pentru metal, conform DIN 338, SLR® tip NFO,
• material HSS-E (Co 5%), rectificate, tratate termic
• unghi de ascutire 135°, unghiul spirei 20-30°
• toleranta diametrului h8
• gradatie pentru controlul adancimi de gaurire
• de la Ø 2 mm cu ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida
• destinate pentru gaurire in oteluri ne aliate, slab aliate si ideal pentru gauriri in tevi si profile din otel inoxidabil
• recomandabil a se folosi pe masini de gaurit, utilaje stationare si fixe dar si pe masini de gaurit portabile, electrice sau pneumatice





TIVOLY

HSS E5 | GOLD TREATED | DIN 338 | GRADUATION | 135° | NFO TYPE | h8

	Ø	d2	L	l1	
11468520100	1,0		34	12	15.86
11468520150	1,5		40	18	16.23
11468520200	2,0		49	24	16.45
11468520250	2,5		57	30	18.50
11468520300	3,0		61	33	19.90
11468520320	3,2		65	36	21.52

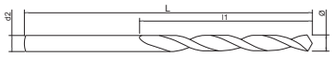
	Ø	d2	L	l1	
11468520330	3,3		65	36	**27.78**
11468520350	3,5		70	39	**22.22**
11468520400	4,0		75	43	**25.78**
11468520420	4,2		75	43	**27.45**
11468520450	4,5		80	47	**29.93**
11468520480	4,8		86	52	**36.57**
11468520500	5,0		86	52	**29.34**
11468520520	5,2		86	52	**28.37**
11468520550	5,5		93	57	**31.71**
11468520600	6,0		93	57	**34.79**
11468520650	6,5		101	63	**39.10**
11468520680	6,8		109	69	**43.42**
11468520700	7,0		109	69	**47.14**
11468520750	7,5		109	69	**52.15**
11468520800	8,0		117	75	**55.71**
11468520850	8,5		117	75	**56.79**
11468520900	9,0		125	81	**57.17**
11468520950	9,5		125	81	**79.77**
11468521000	10,0		133	87	**89.53**
11468521050	10,5		133	87	**91.36**
11468521100	11,0		142	94	**100.10**
11468521200	12,0		151	101	**115.10**
11468521300	13,0		151	101	**127.02**

8242101

Burghie cilindrice scurte pentru metal, din carbura monobloc, conform DIN 6537K, fara racira HELICA®

• burghie cilindrice scurte pentru metal, din carbura monobloc, conform DIN 6537K, fara racira
• material: carbura monobloc HM, tratament de suprafata - partea activa „helica coated"
• adancimea de aschiere recomandata : 3xD; fara racire
• unghi de ascutire: 145º
• unghiul spirei: 35º
• toleranta diametrului m7
• cu ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida
• destinate pentru gaurire in oteluri ne aliate si slab aliate, in oteluri pentru tratament termic cu σr≤1200 N/mm², si ideal pentru gauriri in oteluri inoxidabile feritice, oteluri aliate cu Cobalt, Nichel si Titan, gaurire in fonte
• recomandabil a se folosi pe masini de gaurit, utilaje stationare si fixe





TIVOLY

HM CARB | HELICA COATED | DIN 6537K | 3xd | 145° | 35° | m7

	Ø	d2	L	l1	
82421010300	3,0	6	62	20	**317.32**
82421010310	3,1	6	62	20	**317.32**
82421010320	3,2	6	62	20	**317.32**
82421010330	3,3	6	62	20	**317.32**
82421010340	3,4	6	62	20	**317.32**
82421010350	3,5	6	62	20	**317.32**
82421010360	3,6	6	62	20	**317.32**
82421010370	3,7	6	62	20	**317.32**
82421010380	3,8	6	66	24	**317.32**
82421010390	3,9	6	66	24	**317.32**
82421010400	4,0	6	66	24	**317.32**
82421010410	4,1	6	66	24	**317.32**
82421010420	4,2	6	66	24	**317.32**
82421010430	4,3	6	66	24	**317.32**
82421010440	4,4	6	66	24	**317.32**
82421010450	4,5	6	66	24	**317.32**
82421010460	4,6	6	66	24	**317.32**
82421010465	4,65	6	66	24	**317.32**
82421010470	4,7	6	66	24	**317.32**
82421010480	4,8	6	66	28	**317.32**
82421010490	4,9	6	66	28	**317.32**
82421010500	5,0	6	66	28	**317.32**
82421010510	5,1	6	66	28	**317.32**
82421010520	5,2	6	66	28	**317.32**
82421010530	5,3	6	66	28	**317.32**
82421010540	5,4	6	66	28	**317.32**
82421010550	5,5	6	66	28	**317.32**
82421010555	5,55	6	66	28	**317.32**
82421010560	5,6	6	66	28	**317.32**

	Ø	d2	L	l1	
82421010570	5,7	6	66	28	**317.32**
82421010580	5,8	6	66	28	**317.32**
82421010590	5,9	6	66	28	**317.32**
82421010600	6,0	6	66	28	**317.32**
82421010610	6,1	8	79	34	**419.97**
82421010620	6,2	8	79	34	**419.97**
82421010630	6,3	8	79	34	**419.97**
82421010640	6,4	8	79	34	**419.97**
82421010650	6,5	8	79	34	**419.97**
82421010660	6,6	8	79	34	**419.97**
82421010670	6,7	8	79	34	**419.97**
82421010675	6,75	8	79	34	**419.97**
82421010680	6,8	8	79	34	**419.97**
82421010690	6,9	8	79	34	**419.97**
82421010700	7,0	8	79	34	**419.97**
82421010710	7,1	8	79	41	**419.97**
82421010720	7,2	8	79	41	**419.97**
82421010730	7,3	8	79	41	**419.97**
82421010740	7,4	8	79	41	**419.97**
82421010750	7,5	8	79	41	**419.97**
82421010755	7,55	8	79	41	**419.97**
82421010760	7,6	8	79	41	**419.97**
82421010770	7,7	8	79	41	**419.97**
82421010780	7,8	8	79	41	**419.97**
82421010790	7,9	8	79	41	**419.97**
82421010800	8,0	8	79	41	**419.97**
82421010810	8,1	10	89	47	**505.95**
82421010820	8,2	10	89	47	**505.95**
82421010830	8,3	10	89	47	**505.95**
82421010840	8,4	10	89	47	**505.95**
82421010850	8,5	10	89	47	**505.95**
82421010860	8,6	10	89	47	**505.95**
82421010870	8,7	10	89	47	**505.95**
82421010880	8,8	10	89	47	**505.95**
82421010890	8,9	10	89	47	**505.95**
82421010900	9,0	10	89	47	**505.95**
82421010910	9,1	10	89	47	**505.95**
82421010920	9,2	10	89	47	**505.95**
82421010930	9,3	10	89	47	**505.95**
82421010940	9,4	10	89	47	**505.95**
82421010950	9,5	10	89	47	**505.95**
82421010955	9,55	10	89	47	**505.95**
82421010960	9,6	10	89	47	**505.95**
82421010970	9,7	10	89	47	**505.95**
82421010980	9,8	10	89	47	**505.95**
82421010990	9,9	10	89	47	**505.95**
82421011000	10,0	10	89	47	**505.95**
82421011010	10,1	12	102	55	**703.15**
82421011020	10,2	12	102	55	**703.15**
82421011025	10,25	12	102	55	**703.15**
82421011030	10,3	12	102	55	**703.15**
82421011040	10,4	12	102	55	**703.15**
82421011050	10,5	12	102	55	**703.15**
82421011060	10,6	12	102	55	**703.15**
82421011070	10,7	12	102	55	**703.15**
82421011080	10,8	12	102	55	**703.15**
82421011090	10,9	12	102	55	**703.15**
82421011100	11,0	12	102	55	**703.15**
82421011110	11,1	12	102	55	**703.15**
82421011120	11,2	12	102	55	**703.15**
82421011130	11,3	12	102	55	**703.15**
82421011140	11,4	12	102	55	**703.15**
82421011150	11,5	12	102	55	**703.15**
82421011160	11,6	12	102	55	**703.15**
82421011170	11,7	12	102	55	**703.15**
82421011180	11,8	12	102	55	**703.15**
82421011190	11,9	12	102	55	**703.15**
82421011200	12,0	12	102	55	**703.15**
82421011210	12,1	14	107	60	**1,015.18**
82421011220	12,2	14	107	60	**1,015.18**
82421011230	12,3	14	107	60	**1,015.18**
82421011240	12,4	14	107	60	**1,015.18**
82421011250	12,5	14	107	60	**1,015.18**
82421011260	12,6	14	107	60	**1,015.18**
82421011270	12,7	14	107	60	**1,015.18**
82421011280	12,8	14	107	60	**1,015.18**
82421011290	12,9	14	107	60	**1,015.18**
82421011300	13,0	14	107	60	**1,015.18**
82421011310	13,1	14	107	60	**1,015.18**
82421011320	13,2	14	107	60	**1,015.18**
82421011330	13,3	14	107	60	**1,015.18**
82421011340	13,4	14	107	60	**1,015.18**
82421011350	13,5	14	107	60	**1,015.18**
82421011360	13,6	14	107	60	**1,015.18**
82421011370	13,7	14	107	60	**1,015.18**
82421011380	13,8	14	107	60	**1,015.18**
82421011390	13,9	14	107	60	**1,015.18**
82421011400	14,0	14	107	60	**1,015.18**

	Ø	d2	L	l1	
82421011410	14,1	16	115	65	**1,277.61**
82421011420	14,2	16	115	65	**1,277.61**
82421011430	14,3	16	115	65	**1,277.61**
82421011440	14,4	16	115	65	**1,277.61**
82421011450	14,5	16	115	65	**1,277.61**
82421011460	14,6	16	115	65	**1,277.61**
82421011470	14,7	16	115	65	**1,277.61**
82421011480	14,8	16	115	65	**1,277.61**
82421011490	14,9	16	115	65	**1,277.61**
82421011500	15,0	16	115	65	**1,277.61**
82421011510	15,1	16	115	65	**1,277.61**
82421011520	15,2	16	115	65	**1,277.61**
82421011525	15,25	16	115	65	**1,277.61**
82421011530	15,3	16	115	65	**1,277.61**
82421011540	14,4	16	115	65	**1,277.61**
82421011550	15,5	16	115	65	**1,277.61**
82421011560	15,6	16	115	65	**1,277.61**
82421011570	15,7	16	115	65	**1,277.61**
82421011580	15,8	16	115	65	**1,277.61**
82421011590	15,9	16	115	65	**1,277.61**
82421011600	16,0	16	115	65	**1,277.61**

Pentru alte variante constructive consultati catalogul Tivoly.

1300

Burghie cilindrice cu doua capete pentru metal

- *burghie cilindrice scurte, cu doua capete (burghie pentru caroserie), pentru metal, tip N, 118°, HSS, rectificate*
- *taiere pe dreapta*
- *unghiul spirei 20-30°, toleranta diametrului h8*
- *ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara, micsorarea fortei de aschiere si o gaurire mai rapida*
- *destinate pentru gaurire in foi de tabla, platbanda sau profile din oteluri ne aliate si slab aliate, cu σr ≤ 800 N / mm², oteluri pentru tratament termic cu σr≤1100 N/mm², gaurire materiale neferoase (aliaje de cupru si bronzuri), mase plastice*
- *recomandabil a se pot folosi pe masini de gaurit, utilaje stationare si fixe dar si pe masini de gaurit portabile, electrice sau pneumatice*



BOHRCRAFT NORM | HSS G | 118° | DIN 1412 C SPLIT POINT | 800 N/mm²

	DIM.	LT	LU	AMB	
13000100200	2,00	43	13	10	**3.08**
13000100250	2,50	43	13	10	**3.08**
13000100300	3,00	46	13	10	**3.08**
13000100310	3,10	49	13	10	**3.08**
13000100320	3,20	49	13	10	**3.08**
13000100325	3,25	49	13	10	**3.08**
13000100330	3,30	49	13	10	**3.24**
13000100350	3,50	49	13	10	**3.39**
13000100400	4,00	52	16	10	**3.54**
13000100410	4,10	55	16	10	**3.54**
13000100420	4,20	55	16	10	**4.01**
13000100450	4,50	58	16	10	**6.01**
13000100490	4,90	62	16	10	**6.01**
13000100500	5,00	62	16	10	**6.01**
13000100510	5,10	62	16	10	**6.01**
13000100520	5,20	62	16	10	**6.01**
13000100550	5,50	66	19	10	**8.01**
13000100600	6,00	66	19	10	**9.55**

1340

Burghie cilindrice lungi pentru metal DIN 340, tip N, 118°, HSS

- *burghie cilindrice lungi, pentru metal, conform DIN 340, tip N, 118°, HSS*
- *tratate termic, laminate, brunate*
- *taiere pe dreapta*
- *unghiul spirei 20-30°, toleranta diametrului h8*
- *destinate pentru gaurire in oteluri ne aliate si slab aliate, cu σr≤750 N/mm², gaurire in materiale neferoase (aliaje de aluminiu, cupru si bronzuri), materiale sinterizate diverse (nu in piese sinterizate din pulberi de oteluri sau din carburi metalice) se pot folosi pe masini de gaurit, utilaje stationare si fixe si numai ocazional pe masini de gaurit portabile, electrice sau pneumatice*



BOHRCRAFT | DIN 340 | HSS R | Typ N | 118°

	DIM.	LT	LU	AMB	
13400100200	2,00	85	56	10	**2.47**
13400100250	2,50	95	62	10	**2.47**
13400100280	2,80	100	66	10	**3.54**
13400100300	3,00	100	66	10	**3.08**
13400100310	3,10	106	69	10	**3.70**
13400100320	3,20	106	69	10	**3.70**
13400100330	3,30	106	69	10	**4.01**
13400100340	3,40	112	73	10	**4.31**
13400100350	3,50	112	73	10	**3.70**
13400100370	3,70	112	73	10	**4.31**
13400100380	3,80	119	78	10	**4.31**
13400100390	3,90	119	78	10	**4.62**
13400100400	4,00	119	78	10	**4.31**
13400100410	4,10	119	78	10	**4.78**
13400100420	4,20	119	78	10	**4.78**
13400100440	4,40	126	82	10	**4.93**
13400100450	4,50	126	82	10	**4.62**
13400100480	4,80	132	87	10	**6.63**
13400100490	4,90	132	87	10	**6.63**
13400100500	5,00	132	87	10	**6.16**
13400100510	5,10	132	87	10	**7.09**
13400100520	5,20	132	87	10	**7.09**
13400100550	5,50	139	91	10	**6.78**
13400100580	5,80	139	91	10	**8.32**
13400100600	6,00	139	91	10	**8.32**
13400100620	6,20	148	97	10	**9.25**
13400100630	6,30	148	97	10	**9.25**
13400100650	6,50	148	97	10	**7.70**
13400100680	6,80	156	102	10	**8.63**
13400100700	7,00	156	102	10	**8.63**
13400100750	7,50	156	102	10	**9.55**
13400100800	8,00	165	109	10	**11.10**
13400100850	8,50	165	109	10	**12.48**
13400100900	9,00	175	115	10	**13.25**
13400100950	9,50	175	115	10	**14.33**
13400101000	10,00	184	121	10	**17.72**
13400101050	10,50	184	121	5	**19.42**
13400101100	11,00	195	128	5	**21.57**
13400101150	11,50	195	128	5	**23.73**
13400101200	12,00	205	134	5	**27.12**
13400101250	12,50	205	134	5	**29.28**
13400101300	13,00	205	134	5	**31.28**

1350

Burghie cilindrice lungi pentru metal DIN 340, tip N, 118°, HSS-G, rectificate

- *burghie cilindrice lungi, pentru metal, conform DIN 340, tip N, 118°, HSS-G*
- *tratate termic, rectificate*
- *taiere pe dreapta*
- *unghiul spirei 20-30°, toleranta diametrului h8*
- *ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara, micsorarea fortei de aschiere si o gaurire mai rapida*
- *destinate pentru gaurire in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm², oteluri pentru tratament termic cu σr≤1100 N/mm², gaurire in materiale neferoase (aliaje de aluminiu, cupru si bronzuri) si in mase plastice*
- *se pot folosi pe masini de gaurit, utilaje stationare si fixe si numai ocazional pe masini de gaurit portabile, electrice sau pneumatice*



BOHRCRAFT

DIN 340 | HSS G | Typ N | 118° | DIN 1412 C SPLIT POINT | 800 N/mm²

	DIM.	LT	LU	AMB	
13500100100	1,00	56	33	10	**2.93**
13500100150	1,50	70	45	10	**2.93**
13500100200	2,00	85	56	10	**2.93**
13500100250	2,50	95	62	10	**3.08**
13500100280	2,80	100	66	10	**4.93**
13500100300	3,00	100	66	10	**4.31**
13500100310	3,10	106	69	10	**4.93**
13500100320	3,20	106	69	10	**4.93**
13500100330	3,30	106	69	10	**4.93**
13500100350	3,50	112	73	10	**4.93**
13500100360	3,60	112	73	10	**6.93**
13500100370	3,70	112	73	10	**6.93**
13500100380	3,80	119	78	10	**7.09**
13500100390	3,90	119	78	10	**7.09**
13500100400	4,00	119	78	10	**6.16**
13500100410	4,10	119	78	10	**7.86**
13500100420	4,20	119	78	10	**7.86**
13500100430	4,30	126	82	10	**9.09**
13500100440	4,40	126	82	10	**8.94**
13500100450	4,50	126	82	10	**7.40**
13500100480	4,80	132	87	10	**8.78**
13500100490	4,90	132	87	10	**10.79**
13500100500	5,00	132	87	10	**8.78**
13500100510	5,10	132	87	10	**12.64**
13500100520	5,20	132	87	10	**12.64**
13500100530	5,30	132	87	10	**12.64**
13500100540	5,40	139	91	10	**12.64**
13500100550	5,50	139	91	10	**10.63**
13500100580	5,80	139	91	10	**13.71**
13500100600	6,00	139	91	10	**12.02**
13500100620	6,20	148	97	10	**15.87**
13500100650	6,50	148	97	10	**12.94**
13500100680	6,80	156	102	10	**15.72**
13500100700	7,00	156	102	10	**14.79**
13500100750	7,50	156	102	10	**16.49**
13500100800	8,00	165	109	10	**18.95**
13500100850	8,50	165	109	10	**20.96**
13500100900	9,00	175	115	10	**21.57**
13500100950	9,50	175	115	10	**25.58**
13500101000	10,00	184	121	10	**29.28**
13500101020	10,20	184	121	5	**31.13**
13500101050	10,50	184	121	5	**31.13**
13500101100	11,00	195	128	5	**33.75**
13500101150	11,50	195	128	5	**36.68**
13500101200	12,00	205	134	5	**41.91**
13500101250	12,50	205	134	5	**46.08**
13500101300	13,00	205	134	5	**48.23**
13500201400	14,00	214	140	1	**77.36**
13500201600	16,00	227	149	1	**132.52**

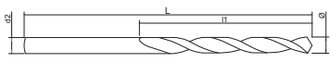
1140331

Burghie cilindrice lungi pentru metal DIN 340, tip N, 118°, HSS-G, rectificate

- *burghie cilindrice lungi, pentru metal, conform DIN 340, tip N, 118°, HSS-G*
- *material HSS-G, rectificate, tratate, tratament de suprafata in aburi*
- *taiere pe dreapta*
- *unghi de ascutire 118°*
- *unghiul spirei 20-30°, toleranta diametrului h8*
- *destinate pentru gaurire in oteluri ne aliate si slab aliate si oteluri inoxidabile austenitice, cu σr≤950 N/mm², gaurire in fonte*
- *se pot folosi pe masini de gaurit, utilaje stationare si fixe si numai ocazional pe masini de gaurit portabile, electrice sau pneumatice*



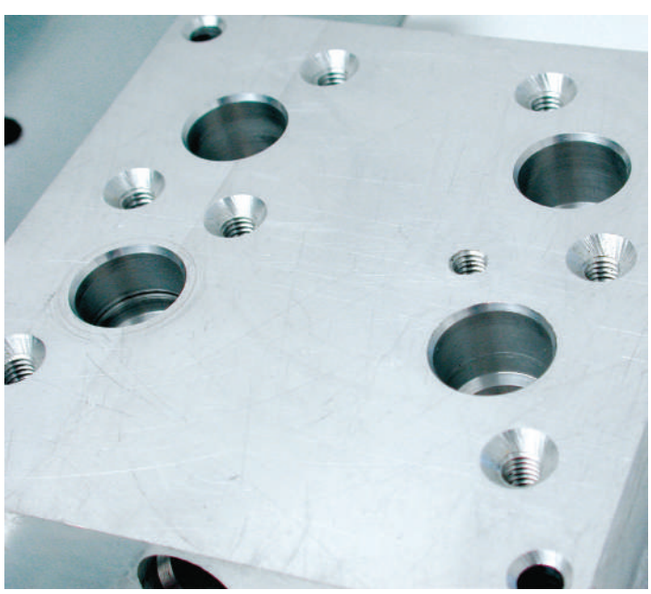
TIVOLY



HSS | STEAM TREATED | DIN 340 | 7xd | 118° | N TYPE | h8

	Ø	d2	L	l1	
11403310100	1,0	1,0	56	33	**32.90**
11403310110	1,1	1,1	60	37	**31.23**
11403310120	1,2	1,2	65	41	**29.93**
11403310130	1,3	1,3	65	41	**27.45**
11403310140	1,4	1,4	70	45	**30.15**
11403310150	1,5	1,5	70	45	**23.46**
11403310160	1,6	1,6	76	50	**25.83**
11403310170	1,7	1,7	76	50	**37.97**
11403310180	1,8	1,8	80	53	**22.81**
11403310190	1,9	1,9	80	53	**39.21**
11403310200	2,0	2,0	85	56	**16.88**
11403310210	2,1	2,1	85	56	**18.55**
11403310220	2,2	2,2	90	59	**25.30**
11403310230	2,3	2,3	90	59	**18.12**
11403310240	2,4	2,4	95	62	**21.90**
11403310250	2,5	2,5	95	62	**18.55**
11403310260	2,6	2,6	95	62	**28.69**
11403310270	2,7	2,7	100	66	**20.39**
11403310280	2,8	2,8	100	66	**20.39**
11403310290	2,9	2,9	100	66	**28.37**
11403310300	3,0	3,0	100	60	**17.15**
11403310310	3,1	3,1	106	69	**20.33**
11403310320	3,2	3,2	106	69	**18.98**
11403310325	3,25	3,25	106	69	**19.25**
11403310330	3,3	3,3	106	69	**19.25**
11403310340	3,4	3,4	112	73	**21.30**
11403310350	3,5	3,5	112	73	**19.58**
11403310360	3,6	3,6	112	73	**23.62**
11403310370	3,7	3,7	112	73	**22.01**
11403310375	3,75	3,75	112	73	**32.90**
11403310380	3,8	3,8	119	78	**24.43**
11403310390	3,9	3,9	119	78	**29.88**
11403310400	4,0	4,0	119	78	**21.68**
11403310410	4,1	4,1	119	78	**24.11**
11403310420	4,2	4,2	119	78	**24.65**
11403310425	4,25	4,25	119	78	**40.61**
11403310430	4,3	4,3	119	78	**26.05**
11403310440	4,4	4,4	126	82	**37.97**
11403310450	4,5	4,5	126	82	**25.51**
11403310460	4,6	4,6	126	82	**26.43**
11403310470	4,7	4,7	126	82	**44.77**
11403310480	4,8	4,8	126	82	**27.99**
11403310490	4,9	4,9	132	87	**28.32**
11403310500	5,0	5,0	132	87	**27.45**
11403310510	5,1	5,1	132	87	**30.20**
11403310520	5,2	5,2	132	87	**30.20**
11403310525	5,25	5,25	132	87	**51.24**
11403310530	5,3	5,3	132	87	**30.96**
11403310540	5,4	5,4	139	91	**34.03**
11403310550	5,5	5,5	139	91	**33.01**

	Ø	d2	L	l1	
11403310560	5,6	5,6	139	91	**39.59**
11403310570	5,7	5,7	139	91	**34.03**
11403310575	5,75	5,75	139	91	**55.50**
11403310580	5,8	5,8	139	91	**34.25**
11403310590	5,9	5,9	139	91	**35.43**
11403310600	6,0	6,0	139	91	**33.55**
11403310610	6,1	6,1	148	97	**40.67**
11403310620	6,2	6,2	148	97	**40.67**
11403310625	6,25	6,25	148	97	**62.51**
11403310630	6,3	6,3	148	97	**40.67**
11403310640	6,4	6,4	148	97	**54.20**
11403310650	6,5	6,5	148	97	**42.82**
11403310660	6,6	6,6	148	97	**44.50**
11403310670	6,7	6,7	148	97	**44.33**
11403310675	6,75	6,75	156	102	**61.59**
11403310680	6,8	6,8	156	102	**50.37**
11403310690	6,9	6,9	156	102	**55.44**
11403310700	7,0	7,0	156	102	**49.94**
11403310720	7,2	7,2	156	102	**63.10**
11403310740	7,4	7,4	156	102	**63.10**
11403310750	7,5	7,5	156	102	**53.18**
11403310760	7,6	7,6	165	109	**68.71**
11403310780	7,8	7,8	165	109	**65.37**
11403310800	8,0	8,0	165	109	**59.33**
11403310810	8,1	8,1	165	109	**84.84**
11403310820	8,2	8,2	165	109	**70.28**
11403310825	8,25	8,25	165	109	**74.97**
11403310850	8,5	8,5	165	109	**65.80**
11403310860	8,6	8,6	175	115	**86.51**
11403310870	8,7	8,7	175	115	**86.51**
11403310900	9,0	9,0	175	115	**71.46**
11403310910	9,1	9,1	175	115	**91.31**
11403310950	9,5	9,5	175	115	**72.49**
11403310980	9,8	9,8	184	121	**94.82**
11403311000	10,0	10,0	184	121	**78.20**
11403311020	10,2	10,2	184	121	**124.64**
11403311025	10,25	10,25	184	121	**115.10**
11403311050	10,5	10,5	184	121	**105.87**
11403311100	11,0	11,0	195	128	**117.58**
11403311150	11,5	11,5	195	128	**120.11**
11403311180	11,8	11,8	195	128	**160.02**
11403311200	12,0	12,0	205	134	**133.97**
11403311250	12,5	12,5	205	134	**141.04**
11403311300	13,0	13,0	205	134	**159.92**
11403311350	13,5	13,5	214	140	**178.52**
11403311400	14,0	14,0	214	140	**192.65**
11403311450	14,5	14,5	220	144	**225.61**
11403311500	15,0	15,0	220	144	**218.22**
11403311600	16,0	16,0	227	149	**254.30**
11403311700	17,0	17,0	235	154	**302.25**
11403311800	18,0	18,0	241	158	**314.87**
11403311900	19,0	19,0	247	162	**394.80**
11403312000	20,0	20,0	254	166	**442.86**



1400

Burghie cilindrice lungi pentru metal DIN 1869, tip N, 118°, HSS-G, rectificate

- *burghie cilindrice lungi, pentru metal, conform DIN 1869, tip N, 118°, HSS-G*
- *tratate termic, rectificate*
- *taiere pe dreapta, unghiul spirei 20-30°, toleranta diametrului h8*
- *ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara, micsorarea fortei de aschiere si o gaurire mai rapida*
- *destinate pentru gaurire in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm², oteluri pentru tratament termic cu σr≤1100 N/mm², gaurire in materiale neferoase (cupru si bronzuri) si in mase plastice*
- *se recomanda gaurirea cu racire iar forta de achiere trebie sa fie corelata cu stabilitatea burghiului*
- *se pot folosi pe masini de gaurit, utilaje stationare, fixe*



BOHRCRAFT

DIN	HSS	Typ			800
1869	G	N	118°	SPLIT POINT DIN 1412 C	N/mm²

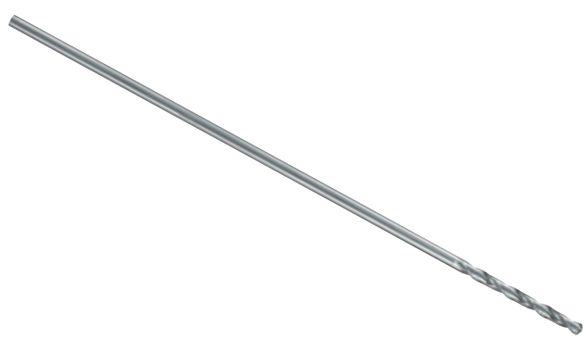
	DIM.	LT	LU	AMB	
Seria 1					
14000710200	2,00	125	85	1	**26.50**
14000710250	2,50	140	85	1	**29.12**
14000710300	3,00	150	100	1	**29.12**
14000710320	3,20	155	105	1	**38.99**
14000710330	3,30	155	105	1	**38.99**
14000710350	3,50	165	115	1	**41.30**
14000710400	4,00	175	120	1	**44.69**
14000710420	4,20	175	120	1	**44.69**
14000710450	4,50	185	125	1	**47.00**
14000710500	5,00	195	135	1	**55.94**
14000710550	5,50	205	140	1	**76.12**
14000710600	6,00	205	140	1	**76.12**
14000710650	6,50	215	150	1	**80.29**
14000710700	7,00	225	155	1	**90.15**
14000710750	7,50	225	155	1	**94.15**
14000710800	8,00	240	165	1	**100.63**
14000710850	8,50	240	165	1	**117.73**
14000710900	9,00	250	175	1	**148.40**
14000710950	9,50	250	175	1	**148.40**
14000711000	10,00	265	185	1	**155.49**
14000711050	10,50	265	185	1	**172.28**
14000711100	11,00	280	195	1	**181.84**
14000711150	11,50	280	195	1	**191.08**
14000711200	12,00	295	205	1	**213.73**
14000711250	12,50	295	205	1	**213.73**
14000711300	13,00	295	205	1	**234.23**
Seria 2					
14000720300	3,00	190	130	1	**54.40**
14000720320	3,20	200	135	1	**56.86**
14000720330	3,30	200	135	1	**56.86**
14000720350	3,50	210	145	1	**67.34**
14000720400	4,00	220	150	1	**72.89**
14000720420	4,20	220	150	1	**72.89**
14000720450	4,50	235	160	1	**87.53**
14000720500	5,00	245	170	1	**93.23**
14000720550	5,50	260	180	1	**109.56**
14000720600	6,00	260	180	1	**109.56**
14000720650	6,5	275	190	1	**130.98**
14000720700	7,00	290	200	1	**138.38**
14000720750	7,50	290	200	1	**148.86**
14000720800	8,00	305	210	1	**156.26**
14000720850	8,50	305	210	1	**196.94**
14000720900	9,00	320	220	1	**206.80**
14000720950	9,50	320	220	1	**206.80**
14000721000	10,00	340	235	1	**218.82**
14000721050	10,50	340	235	1	**245.79**
14000721100	11,00	365	250	1	**259.81**
14000721150	11,50	365	250	1	**280.92**
14000721200	12,00	375	260	1	**296.95**
14000721250	12,50	375	260	1	**296.95**
14000721300	13,00	375	260	1	**330.54**

	DIM.	LT	LU	AMB	
Seria 3					
14000730350	3,50	265	180	1	**87.53**
14000730400	4,00	280	190	1	**93.38**
14000730420	4,20	280	190	1	**93.38**
14000730450	4,50	295	200	1	**133.91**
14000730500	5,00	315	210	1	**142.54**
14000730550	5,50	330	225	1	**149.48**
14000730600	6,00	330	225	1	**149.48**
14000730650	6,50	350	235	1	**158.41**
14000730700	7,00	370	250	1	**176.60**
14000730750	7,50	370	250	1	**188.31**
14000730800	8,00	390	265	1	**238.85**
14000730850	8,50	390	265	1	**281.69**
14000730900	9,00	410	280	1	**296.02**
14000731000	10,00	430	295	1	**310.20**
14000731050	10,50	430	295	1	**336.24**
14000731100	11,00	455	310	1	**352.42**
14000731150	11,50	455	310	1	**367.22**
14000731200	12,00	480	330	1	**403.74**
14000731250	12,50	480	330	1	**403.74**
14000731300	13,00	480	330	1	**482.79**

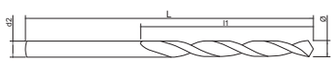
8143811

Burghie cilindrice, extra lungi pentru metal NAS 907, HSS, tip N

• burghiu cilindric cu coada cilindrica, extra lung pentru metal, NAS 907, tip N, HSS-G, rectificate
• material: HSS, tratate termic, rectificate
• taiere pe dreapta
• unghi de ascutire 118°
• taiere pe dreapta, unghiul spirei 20-30°, toleranta diametrului h8
• destinate pentru gaurire in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 700 N / mm²
• se pot folosi in zonele cu acces dificil la gaurirea structurilor in aviatie, pe masini de gaurit portabile, electrice sau pneumatice



TIVOLY



HSS · BRIGHT UNCOATED · NAS 907 · 3xd · 118° · N TYPE · h8

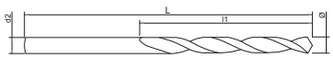
	Ø	d2	L	l1	
81438110200	2,0	2,0	306	29	**75.18**
81438110250	2,5	2,5	307	28	**67.63**
81438110300	3,0	3,0	307	43	**63.86**
81438110320	3,2	3,2	307	43	**63.86**
81438110326	3,26	3,26	307	43	**63.86**
81438110330	3,3	3,3	307	50	**63.86**
81438110350	3,5	3,5	307	56	**89.75**
81438110400	4,0	4,0	307	56	**71.30**
81438110410	4,1	4,1	307	56	**71.30**
81438110422	4,22	4,22	307	56	**74.75**
81438110450	4,5	4,5	307	60	**98.21**
81438110480	4,8	4,8	307	65	**109.76**
81438110500	5,0	5,0	308	65	**88.88**
81438110520	5,2	5,2	308	65	**100.16**
81438110550	5,5	5,5	308	70	**100.16**
81438110580	5,8	5,8	308	70	**103.72**
81438110600	6,0	6,0	308	70	**142.82**
81438110620	6,2	6,2	308	77	**119.79**
81438110650	6,5	6,5	308	77	**132.62**
81438110675	6,75	6,75	308	82	**142.82**
81438110780	7,8	7,8	308	82	**142.82**
81438110800	8,0	8,0	308	82	**140.12**

9020061

Burghie cilindrice cu coada conica pentru metal DIN 345, tip N, 118°, HSS

• burghie cilindrice cu coada conica / Con Morse, pentru metal, conform DIN 345, tip N, material: HSS, laminate / frezate, tratate termic, brunate
• fatetele si conul rectificate
• ascutirea conform DIN 1412 tip A, unghiul de ascutire 118°
• taiere pe dreapta, unghiul spirei 20-30°, toleranta diametrului h8
• destinate pentru gaurire in oteluri ne aliate si slab aliate, cu σr ≤ 700 N / mm²
• se pot folosi pe masini de gaurit, utilaje stationare si fixe





TIVOLY

HSS · STEAM TREATED · DIN 338 · 3xd · 118° · N TYPE · h8

	Ø	d2	L	l1	
90200610500	5	CM1	133	52	**34.86**
90200610550	5,5*	CM1	138	57	**36.15**
90200610600	6	CM1	138	57	**35.60**
90200610650	6,5	CM1	144	63	**35.60**
90200610680	6,8	CM1	150	69	**39.11**
90200610700	7	CM1	150	69	**39.11**
90200610750	7,5*	CM1	150	69	**40.96**
90200610800	8	CM1	156	75	**42.81**
90200610850	8,5	CM1	156	75	**42.81**
90200610900	9	CM1	162	81	**42.81**
90200610950	9,5*	CM1	162	81	**43.41**

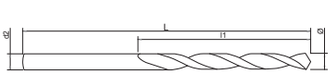
* In limita stocului disponibil

1140981

Burghie cilindrice cu coada conica pentru metal DIN 345, tip N, 118°, HSS, rectificate

• burghie cilindrice cu coada conica / Con Morse, pentru metal, conform DIN 345, tip N, 118°, material: HSS, rectificate, tratate termic
• fatetele si conul rectificate
• ascutirea conform DIN 1412 tip A, unghiul de ascutire 118°
• taiere pe dreapta, unghiul spirei 20-30°, toleranta diametrului h8
• destinate pentru gaurire in oteluri ne aliate si slab aliate, cu σr ≤ 700 N / mm², oteluri pentru tratament termic cu σr ≤ 950 N / mm² si oteluri inoxidabile austenitice
• se pot folosi pe masini de gaurit, utilaje stationare si fixe



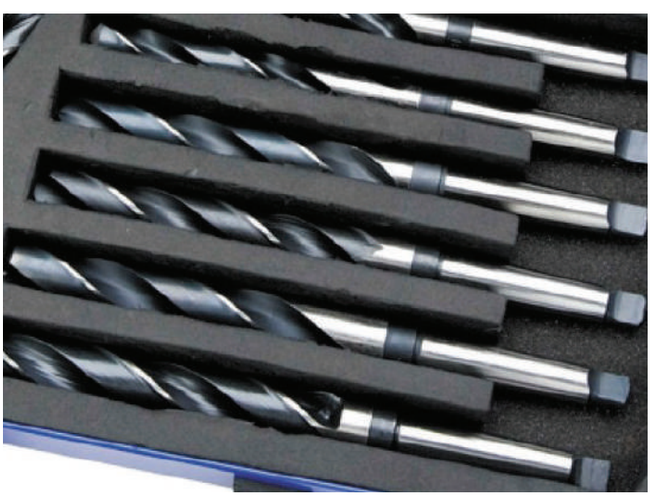


TIVOLY

HSS · STEAM TREATED · DIN 345 · 3xd · 118° · N TYPE · h8

	Ø	d2	L	l1	
11409810300	3	CM1	114	33	**148.10**
11409810350	3,5	CM1	120	39	**156.03**
11409810400	4	CM1	124	43	**140.34**
11409810420	4,2	CM1	124	43	**201.45**
11409810450	4,5	CM1	128	47	**134.19**
11409810500	5	CM1	133	52	**124.37**
11409810520	5,2	CM1	133	52	**209.21**
11409810550	5,5	CM1	138	57	**130.47**
11409810600	6	CM1	138	57	**122.54**
11409810620	6,2	CM1	144	63	**209.21**
11409810625	6,5	CM1	144	63	**120.49**
11409810670	6,7	CM1	144	63	**209.21**
11409810675	6,75	CM1	150	69	**120.49**
11409810680	6,8	CM1	150	69	**209.21**
11409810700	7	CM1	150	69	**114.56**
11409810750	7,5	CM1	150	69	**130.47**
11409810800	8	CM1	156	75	**115.64**

	Ø	d2	L	l1	
11409810850	8,5	CM1	156	75	**134.19**
11409810880	8,8	CM1	162	81	**175.66**
11409810900	9	CM1	162	81	**138.23**
11409810950	9,5	CM1	162	81	**148.10**
11409810975	9,75	CM1	168	87	**232.83**
11409810980	9,8	CM1	168	87	**232.83**
11409811000	10	CM1	168	87	**153.77**
11409811020	10,2	CM1	168	87	**191.58**
11409811025	10,25	CM1	168	87	**190.39**
11409811050	10,5	CM1	168	87	**185.97**
11409811075	10,75	CM1	175	94	**224.21**
11409811100	11	CM1	175	94	**191.25**
11409811150	11,5	CM1	175	94	**192.60**
11409811175	11,75	CM1	175	94	**293.62**
11409811200	12	CM1	182	101	**192.22**
11409811250	12,5	CM1	182	101	**174.69**
11409811270	12,7	CM1	182	101	**215.79**
11409811275	12,75	CM1	182	101	**200.42**
11409811300	13	CM1	182	101	**173.24**
11409811350	13,5	CM1	189	108	**211.26**
11409811375	13,75	CM1	189	108	**283.26**
11409811400	14	CM1	189	108	**179.28**
11409811425	14,25	CM2	212	114	**256.24**
11409811450	14,5	CM2	212	114	**232.57**
11409811475	14,75	CM2	212	114	**297.66**
11409811500	15	CM2	212	114	**232.73**
11409811525	15,25	CM2	218	120	**289.30**
11409811550	15,5	CM2	218	120	**240.87**
11409811575	15,75	CM2	218	120	**299.44**
11409811600	16	CM2	218	120	**236.07**
11409811625	16,25	CM2	223	125	**279.16**
11409811650	16,5	CM2	223	125	**259.10**
11409811675	16,75	CM2	223	125	**275.17**
11409811700	17	CM2	223	125	**245.67**
11409811720	17,2	CM2	228	130	**400.30**
11409811750	17,5	CM2	228	130	**270.70**
11409811775	17,75	CM2	228	130	**282.56**
11409811800	18	CM2	228	130	**288.50**
11409811850	18,5	CM2	233	135	**304.14**
11409811875	18,75	CM2	233	135	**330.78**
11409811900	19	CM2	233	135	**296.05**
11409811925	19,25	CM2	238	140	**337.25**
11409811950	19,5	CM2	238	140	**337.25**
11409811975	19,75	CM2	238	140	**342.05**
11409812000	20	CM2	238	140	**317.24**
11409812025	20,25	CM2	243	145	**408.18**
11409812050	20,5	CM2	243	145	**368.53**
11409812075	20,75	CM2	243	145	**392.32**
11409812100	21	CM2	243	145	**376.52**
11409812150	21,5	CM2	248	150	**410.17**
11409812200	22	CM2	248	150	**405.80**
11409812250	22,5	CM2	253	155	**441.02**
11409812300	23	CM2	253	155	**470.96**
11409812350	23,5	CM3	276	155	**453.10**
11409812400	24	CM3	281	160	**474.52**
11409812450	24,5	CM3	281	160	**493.99**
11409812500	25	CM3	281	160	**450.03**
11409812550	25,5	CM3	286	165	**555.69**
11409812600	26	CM3	286	165	**563.61**
11409812650	26,5	CM3	286	165	**567.98**
11409812700	27	CM3	291	170	**612.96**
11409812750	27,5	CM3	291	170	**621.32**



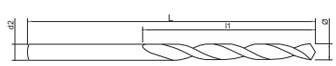
	Ø	d2	L	l1	
11409812800	28	CM3	291	170	**642.25**
11409812850	28,5	CM3	296	175	**724.12**
11409812900	29	CM3	296	175	**691.66**
11409812950	29,5	CM3	296	175	**716.09**
11409813000	30	CM3	296	175	**744.94**
11409813050	30,5	CM3	301	180	**897.04**
11409813100	31	CM3	301	180	**840.08**
11409813150	31,5	CM3	301	180	**946.82**
11409813200	32	CM4	334	185	**889.06**
11409813250	32,5	CM4	334	185	**1,037.54**
11409813300	33	CM4	334	185	**955.45**
11409813350	33,5	CM4	334	185	**1,103.12**
11409813400	34	CM4	339	190	**1,072.27**
11409813450	34,5	CM4	339	190	**1,268.16**
11409813500	35	CM4	339	190	**1,061.97**
11409813550	35,5	CM4	339	190	**1,250.63**
11409813600	36	CM4	344	195	**1,193.89**
11409813650	36,5	CM4	344	195	**1,324.90**
11409813700	37	CM4	344	195	**1,234.24**
11409813750	37,5	CM4	344	195	**1,431.58**
11409813800	38	CM4	349	200	**1,358.12**
11409813850	38,5	CM4	349	200	**1,713.28**
11409813900	39	CM4	349	200	**1,391.24**
11409813950	39,5	CM4	349	200	**1,713.28**
11409814000	40	CM4	349	200	**1,531.09**
11409814050	40,5	CM4	354	205	**1,910.84**
11409814100	41	CM4	354	205	**1,811.23**
11409814200	42	CM4	354	205	**1,893.42**
11409814300	43	CM4	359	210	**2,024.37**
11409814400	44	CM4	359	210	**2,098.64**
11409814500	45	CM4	359	210	**2,180.78**
11409814600	46	CM4	264	215	**2,221.83**
11409814700	47	CM4	264	215	**2,305.59**
11409814800	48	CM4	369	220	**2,468.15**
11409814900	49	CM4	369	220	**2,551.80**
11409815000	50	CM4	369	220	**2,675.04**
11409815100	51	CM5	412	225	**3,156.51**
11409815200	52	CM5	412	225	**3,314.65**
11409815300	53	CM5	412	225	**3,314.65**
11409815400	54	CM5	417	230	**3,551.37**
11409815500	55	CM5	417	230	**3,631.89**
11409815600	56	CM5	417	230	**3,631.89**
11409815700	57	CM5	422	235	**3,906.47**
11409815800	58	CM5	422	235	**4,103.98**
11409815900	59	CM5	422	235	**4,103.98**
11409816000	60	CM5	422	235	**4,261.84**

1142041

Burghie cilindrice extralungi cu coada conica / Con Morse, pentru metal, similar DIN 1870 (NFE 66076), HSS, tip N, 118°, seria lungime 315 mm

- *burghie cilindrice extralungi cu coada conica / Con Morse, pentru metal, similar DIN 1870 (NFE 66076), HSS, tip N, seria de lungime 315 mm*
- *material: HSS, rectificate, tratate termic*
- *fatetele si conul rectificate*
- *ascutirea conform DIN 1412 tip A, unghiul de ascutire 118°*
- *taiere pe dreapta, unghiul spirei 20-30°, toleranta diametrului h8*
- *adancimea maxima de gaurire recomandata ≤ 10xd*
- *destinate pentru gaurire in oteluri ne aliate si slab aliate cu σr ≤ 700 N / mm², oteluri pentru tratament termic cu σr ≤ 950 N / mm² si oteluri inoxidabile austenitice si fonte*
- *se pot folosi pe masini de gaurit, utilaje stationare / fixe*





TIVOLY

HSS | STEAM TREATED | NFE 66076 | >10xd | 118° | N TYPE | h8

	Ø	d2	L	l1	
11420410600	6,0	CM1	315	235	**270.37**
11420410800	8,0	CM1	315	235	**297.83**

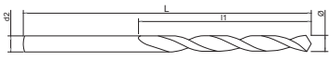
	Ø	d2	L	l1	
11420411000	10,0	CM1	315	235	**474.08**
11420411050	10,5	CM1	315	235	**565.34**
11420411100	11,0	CM1	315	235	**593.22**
11420411150	11,5	CM1	315	235	**599.48**
11420411200	12,0	CM2	315	215	**531.31**
11420411250	12,5	CM2	315	215	**554.93**
11420411300	13,0	CM2	315	215	**544.41**
11420411350	13,5	CM2	315	215	**591.61**
11420411400	14,0	CM2	315	215	**574.35**
11420411450	14,5	CM2	315	215	**674.77**
11420411500	15,0	CM2	315	215	**604.39**
11420411550	15,5	CM2	315	215	**695.43**
11420411600	16,0	CM2	315	215	**630.55**
11420411650	16,5	CM2	315	215	**760.48**
11420411700	17,0	CM2	315	215	**674.83**
11420411750	17,5	CM2	315	215	**753.25**
11420411800	18,0	CM2	315	215	**724.45**
11420411850	18,5	CM2	315	215	**785.93**
11420411900	19,0	CM2	315	215	**785.93**
11420411950	19,5	CM2	315	215	**827.79**
11420412000	20,0	CM2	315	215	**798.71**
11420412050	20,5	CM2	315	215	**855.24**
11420412100	21,0	CM2	315	215	**870.66**
11420412150	21,5	CM2	315	215	**913.60**
11420412200	22,0	CM2	315	215	**881.29**
11420412250	22,5	CM2	315	215	**962.03**
11420412300	23,0	CM2	315	215	**962.03**

1142051

Burghie cilindrice extralungi cu coada conica / Con Morse, pentru metal, similar DIN 1870 (NFE 66076), HSS, tip N, 118°, seria lungime 400 mm

• aceeleasi caracteristici ca si articolul 1142041, dar cu lungime totala de 400 mm





TIVOLY

HSS | STEAM TREATED | NFE 66076 | >10xd | 118° | N TYPE | h8

	Ø	d2	L	l1	
11420511000	10,0	CM1	400	300	**553.58**
11420511050	10,5	CM1	400	300	**597.76**
11420511100	11,0	CM1	400	300	**597.76**
11420511150	11,5	CM1	400	300	**631.84**
11420511200	12,0	CM2	400	300	**620.14**
11420511250	12,5	CM2	400	300	**620.14**
11420511300	13,0	CM2	400	300	**656.71**
11420511350	13,5	CM2	400	300	**656.71**
11420511400	14,0	CM2	400	300	**657.89**
11420511450	14,5	CM2	400	300	**657.89**
11420511500	15,0	CM2	400	300	**716.46**
11420511550	15,5	CM2	400	300	**716.46**
11420511600	16,0	CM2	400	300	**754.43**
11420511650	16,5	CM2	400	300	**754.43**
11420511700	17,0	CM2	400	300	**796.23**
11420511750	17,5	CM2	400	300	**796.23**
11420511800	18,0	CM2	400	300	**831.83**
11420511850	18,5	CM2	400	300	**831.83**
11420511900	19,0	CM2	400	300	**981.50**
11420511950	19,5	CM2	400	300	**981.50**
11420512000	20,0	CM2	400	300	**1,036.57**
11420512050	20,5	CM2	400	300	**1,036.57**
11420512100	21,0	CM2	400	300	**1,068.17**
11420512150	21,5	CM2	400	300	**1,068.17**
11420512200	22,0	CM2	400	300	**1,166.01**
11420512250	22,5	CM2	400	300	**1,166.01**
11420512300	23,0	CM2	400	300	**1,178.20**
11420512400	24,0	CM3	400	275	**1,190.28**
11420512500	25,0	CM3	400	275	**1,202.52**
11420512600	26,0	CM3	400	275	**1,273.61**
11420512700	27,0	CM3	400	275	**1,331.05**
11420512800	28,0	CM3	400	275	**1,389.24**
11420512900	29,0	CM3	400	275	**1,471.92**
11420513000	30,0	CM3	400	275	**1,501.80**
11420513100	31,0	CM3	400	275	**1,661.94**



1450

Burghie cilindrice cu coada conica pentru metal DIN 345, tip N, 118°, HSS

• burghie cilindrice cu coada conica / Con Morse, pentru metal, conform DIN 345, tip N, 118°, HSS
• ascutire conform DIN 1412 tip A,
• laminate / frezate, tratate termic, brunate
• fatetele si conul rectificate
• taiere pe dreapta, unghiul spirei 20-30°, toleranta diametrului h8
• destinate pentru gaurire in oteluri ne aliate si aliate, sau piese turnate din oteluri, cu σr ≤ 800 N / mm², oteluri pentru tratament termic cu σr≤1100 N/mm², gaurire in materiale neferoase (aliaje de aluminiu, cupru si bronzuri) si in mase plastice
• se pot folosi pe masini de gaurit, utilaje stationare si fixe



BOC BOHRCRAFT

DIN 345 | HSS | Typ N | 118° | 750 N/mm²

	DIM.	LT	LU	Coada	AMB	
14500301000	10,00	168	87	MK 1	1	**29.59**
14500301050	10,50	168	87	MK 1	1	**29.59**
14500301100	11,00	175	94	MK 1	1	**29.59**
14500301150	11,50	175	94	MK 1	1	**29.90**
14500301200	12,00	182	101	MK 1	1	**30.97**
14500301250	12,50	182	101	MK 1	1	**33.29**
14500301300	13,00	182	101	MK 1	1	**33.29**
14500301350	13,50	189	108	MK 1	1	**33.29**
14500301400	14,00	189	108	MK 1	1	**41.14**
14500301450	14,50	212	114	MK 2	1	**41.14**
14500301500	15,00	212	114	MK 2	1	**41.14**
14500301550	15,50	218	120	MK 2	1	**41.14**
14500301600	16,00	218	120	MK 2	1	**44.38**
14500301650	16,50	223	125	MK 2	1	**48.23**
14500301700	17,00	228	130	MK 2	1	**52.24**
14500301750	17,50	228	130	MK 2	1	**52.24**
14500301800	18,00	228	130	MK 2	1	**55.17**
14500301850	18,50	233	135	MK 2	1	**55.17**
14500301900	19,00	233	135	MK 2	1	**61.33**
14500301950	19,50	238	140	MK 2	1	**61.33**
14500302000	20,00	238	140	MK 2	1	**67.80**
14500302050	20,50	243	145	MK 2	1	**70.42**
14500302100	21,00	243	145	MK 2	1	**82.75**
14500302150	21,50	248	150	MK 2	1	**82.75**
14500302200	22,00	248	150	MK 2	1	**84.91**
14500302250	22,50	253	155	MK 2	1	**85.68**
14500302300	23,00	253	155	MK 2	1	**92.77**
14500302350	23,50	276	155	MK 3	1	**106.02**
14500302400	24,00	281	160	MK 3	1	**110.64**
14500302450	24,50	281	160	MK 3	1	**113.11**
14500302500	25,00	281	160	MK 3	1	**116.34**
14500302550	25,50	286	165	MK 3	1	**116.34**
14500302600	26,00	286	165	MK 3	1	**132.06**
14500302650	26,50	286	165	MK 3	1	**132.06**
14500302700	27,00	291	170	MK 3	1	**137.61**
14500302750	27,50	291	170	MK 3	1	**137.61**
14500302800	28,00	291	170	MK 3	1	**143.47**
14500302850	28,50	296	175	MK 3	1	**143.93**
14500302900	29,00	296	175	MK 3	1	**163.65**
14500302950	29,50	296	175	MK 3	1	**163.65**

	DIM.	LT	LU	Coada	AMB	
14500303000	30,00	296	175	MK 3	1	**163.65**
14500303050	30,50	301	180	MK 3	1	**192.78**
14500303100	31,00	301	180	MK 3	1	**203.87**
14500303150	31,50	301	180	MK 3	1	**216.35**
14500303200	32,00	334	185	MK 4	1	**230.22**
14500303250	32,50	334	185	MK 4	1	**230.22**
14500303300	33,00	334	185	MK 4	1	**234.69**
14500303350	33,50	334	185	MK 4	1	**257.96**
14500303400	34,00	339	190	MK 4	1	**257.96**
14500303450	34,50	339	190	MK 4	1	**262.43**
14500303500	35,00	339	190	MK 4	1	**305.42**
14500303550	35,50	339	190	MK 4	1	**305.42**
14500303600	36,00	344	195	MK 4	1	**310.82**
14500303650	36,50	344	195	MK 4	1	**315.13**
14500303700	37,00	344	195	MK 4	1	**353.50**
14500303750	37,50	344	195	MK 4	1	**353.50**
14500303800	38,00	349	200	MK 4	1	**353.50**
14500303850	38,50	349	200	MK 4	1	**353.50**
14500303900	39,00	349	200	MK 4	1	**395.57**
14500303950	39,50	349	200	MK 4	1	**395.57**
14500304000	40,00	349	200	MK 4	1	**411.13**
14500304050	40,50	354	205	MK 4	1	**411.13**
14500304100	41,00	354	205	MK 4	1	**411.13**
14500304150	41,50	354	205	MK 4	1	**418.22**
14500304200	42,00	354	205	MK 4	1	**418.22**
14500304250	42,50	354	205	MK 4	1	**418.22**
14500304300	43,00	359	210	MK 4	1	**426.39**
14500304350	43,50	359	210	MK 4	1	**433.79**
14500304400	44,00	359	210	MK 4	1	**442.11**
14500304450	44,50	359	210	MK 4	1	**448.43**
14500304500	45,00	359	210	MK 4	1	**503.90**
14500304550	45,50	364	215	MK 4	1	**503.90**
14500304600	46,00	364	215	MK 4	1	**503.90**
14500304650	46,50	364	215	MK 4	1	**511.14**
14500304700	47,00	364	215	MK 4	1	**565.70**
14500304750	47,50	364	215	MK 4	1	**581.26**
14500304800	48,00	369	220	MK 4	1	**581.26**
14500304850	48,50	369	220	MK 4	1	**588.81**
14500304900	49,00	369	220	MK 4	1	**588.81**
14500304950	49,50	369	220	MK 4	1	**604.37**
14500305000	50,00	369	220	MK 4	1	**604.37**
14501505100	51,00	412	225	MK 5	1	**825.81**
14501505200	52,00	412	225	MK 5	1	**826.28**
14501505300	53,00	412	225	MK 5	1	**826.28**
14501505400	54,00	417	230	MK 5	1	**910.10**
14501505500	55,00	417	230	MK 5	1	**911.95**
14501505600	56,00	417	230	MK 5	1	**930.29**
14501505700	57,00	422	235	MK 5	1	**1,073.45**
14501505800	58,00	422	235	MK 5	1	**1,073.45**
14501505900	59,00	422	235	MK 5	1	**1,082.39**
14501506000	60,00	422	235	MK 5	1	**1,082.39**

1451

Burghie cilindrice cu coada conica pentru metal DIN 345, tip N, 118°, HSS, rectificate

- *burghie cilindrice cu coada conica / Con Morse, pentru metal, conform DIN 345, tip N, 118°*
- *material : HSS; fatetele si conul rectificate*
- *ascutirea conform DIN 1412 tip A,*
- *taiere pe dreapta, unghiul spirei 20-30°, toleranta diametrului h8*
- *destinate pentru gaurire in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm², oteluri pentru tratament termic cu σr≤1100 N/mm², gaurire in materiale neferoase (aliaje de aluminiu, cupru si bronzuri) si in mase plastice*
- *se pot folosi pe masini de gaurit, utilaje stationare*



PROFI PLUS by BOHRCRAFT

BOHRCRAFT

DIN	HSS	Typ		900
345		N	118°	N/mm²

	DIM.	LT	LU	Coada	AMB	
14510301000	10,0	168	87	MK 1	1	**88.30**
14510301025	10,25	168	87	MK 1	1	**90.15**
14510301050	10,50	168	87	MK 1	1	**87.07**
14510301075	10,75	175	94	MK 1	1	**102.17**
14510301100	11,00	175	94	MK 1	1	**93.23**
14510301125	11,25	175	94	MK 1	1	**107.87**
14510301150	11,50	175	94	MK 1	1	**98.47**
14510301175	11,75	182	101	MK 1	1	**112.34**
14510301200	12,00	182	101	MK 1	1	**101.55**
14510301225	12,25	182	101	MK 1	1	**116.04**
14510301250	12,50	182	101	MK 1	1	**105.40**
14510301275	12,75	182	101	MK 1	1	**119.73**

	DIM.	LT	LU	Coada	AMB	
14510301300	13,00	182	101	MK 1	1	**108.49**
14510301325	13,25	189	108	MK 1	1	**126.67**
14510301350	13,50	189	108	MK 1	1	**115.11**
14510301375	13,75	189	108	MK 1	1	**134.07**
14510301400	14,00	189	108	MK 1	1	**121.43**
14510301425	14,25	212	114	MK 2	1	**136.38**
14510301450	14,50	212	114	MK 2	1	**128.98**
14510301475	14,75	212	114	MK 2	1	**144.08**
14510301500	15,00	212	114	MK 2	1	**129.75**
14510301525	15,25	218	120	MK 2	1	**145.62**
14510301550	15,50	218	120	MK 2	1	**131.91**
14510301575	15,75	218	120	MK 2	1	**143.00**
14510301600	16,00	218	120	MK 2	1	**131.91**
14510301625	16,25	223	125	MK 2	1	**147.93**
14510301650	16,50	223	125	MK 2	1	**139.00**
14510301675	16,75	223	125	MK 2	1	**153.02**
14510301700	17,00	228	130	MK 2	1	**145.93**
14510301725	17,25	228	130	MK 2	1	**158.26**
14510301750	17,50	228	130	MK 2	1	**149.17**
14510301775	17,75	228	130	MK 2	1	**163.96**
14510301800	18,00	228	130	MK 2	1	**154.10**
14510301825	18,25	233	135	MK 2	1	**174.90**
14510301850	18,50	233	135	MK 2	1	**159.65**
14510301875	18,75	233	135	MK 2	1	**186.30**
14510301900	19,00	233	135	MK 2	1	**170.12**
14510301925	19,25	238	140	MK 2	1	**194.47**
14510301950	19,50	238	140	MK 2	1	**176.90**
14510301975	19,75	238	140	MK 2	1	**202.33**
14510302000	20,00	238	140	MK 2	1	**183.99**
14510302025	20,25	243	145	MK 2	1	**218.51**
14510302050	20,25	243	145	MK 2	1	**198.02**
14510302075	20,75	243	145	MK 2	1	**232.07**
14510302100	21,00	243	145	MK 2	1	**215.28**
14510302125	21,25	248	150	MK 2	1	**236.54**
14510302150	21,50	248	150	MK 2	1	**222.21**
14510302175	21,75	248	150	MK 2	1	**252.41**
14510302200	22,00	248	150	MK 2	1	**230.07**
14510302225	22,25	253	155	MK 2	1	**260.89**
14510302250	22,50	253	155	MK 2	1	**238.08**
14510302275	22,75	253	155	MK 2	1	**270.75**
14510302300	23,00	253	155	MK 2	1	**246.71**
14510302325	23,25	276	155	MK 3	1	**284.77**
14510302350	23,50	276	155	MK 3	1	**261.97**
14510302375	23,75	281	160	MK 3	1	**298.49**
14510302400	24,00	281	160	MK 3	1	**270.90**
14510302425	24,25	281	160	MK 3	1	**312.20**
14510302450	24,50	281	160	MK 3	1	**284.77**
14510302475	24,75	281	160	MK 3	1	**328.38**
14510302500	25,00	281	160	MK 3	1	**298.49**
14510302525	25,25	286	165	MK 3	1	**343.64**
14510302550	25,50	286	165	MK 3	1	**312.20**
14510302575	25,75	286	165	MK 3	1	**343.64**
14510302600	26,00	286	165	MK 3	1	**332.08**
14510302625	26,25	286	165	MK 3	1	**361.05**
14510302650	26,50	286	165	MK 3	1	**332.08**
14510302675	26,75	291	170	MK 3	1	**381.86**
14510302700	27,00	291	170	MK 3	1	**347.03**
14510302725	27,25	291	170	MK 3	1	**395.72**
14510302750	27,50	291	170	MK 3	1	**361.05**
14510302775	27,75	291	170	MK 3	1	**411.44**
14510302800	28,00	291	170	MK 3	1	**381.86**
14510302825	28,25	296	175	MK 3	1	**419.46**
14510302850	28,50	296	175	MK 3	1	**399.11**
14510302875	28,75	296	175	MK 3	1	**445.96**
14510302900	29,00	296	175	MK 3	1	**424.70**
14510302925	29,25	296	175	MK 3	1	**477.86**
14510302950	29,50	296	175	MK 3	1	**454.90**
14510302975	29,75	296	175	MK 3	1	**480.94**
14510303000	30,00	296	175	MK 3	1	**480.94**
14510303050	30,50	301	180	MK 3	1	**480.94**
14510303100	31,00	301	180	MK 3	1	**541.96**
14510303150	31,50	301	180	MK 3	1	**541.96**
14510303200	32,00	334	185	MK 4	1	**611.77**
14510303250	32,50	334	185	MK 4	1	**681.89**
14510303300	33,00	334	185	MK 4	1	**681.89**
14510303350	33,50	334	185	MK 4	1	**708.08**
14510303400	34,00	339	190	MK 4	1	**708.08**
14510303450	34,50	339	190	MK 4	1	**729.35**
14510303500	35,00	339	190	MK 4	1	**729.35**
14510303550	35,50	339	190	MK 4	1	**795.61**
14510303600	36,00	344	195	MK 4	1	**795.61**
14510303650	36,50	344	195	MK 4	1	**975.44**
14510303700	37,00	344	195	MK 4	1	**975.44**
14510303750	37,50	344	195	MK 4	1	**975.44**
14510303800	38,00	349	200	MK 4	1	**975.44**
14510303850	38,50	349	200	MK 4	1	**983.61**
14510303900	39,00	349	200	MK 4	1	**983.61**
14510303950	39,50	349	200	MK 4	1	**983.61**

	DIM.	LT	LU	COADA	AMB	
14510304000	40,00	349	200	MK 4	1	983.61
14510304050	40,50	354	205	MK 4	1	983.61
14510304100	41,00	354	205	MK 4	1	1,001.02
14510304150	41,50	354	205	MK 4	1	1,073.60
14510304200	42,00	354	205	MK 4	1	1,073.60
14510304250	42,50	354	205	MK 4	1	1,073.60
14510304300	43,00	359	210	MK 4	1	1,129.54
14510304350	43,50	359	210	MK 4	1	1,196.57
14510304400	44,00	359	210	MK 4	1	1,196.57
14510304450	44,50	359	210	MK 4	1	1,368.86
14510304500	45,00	359	210	MK 4	1	1,368.86
14510304550	45,50	364	215	MK 4	1	1,368.86
14510304600	46,00	364	215	MK 4	1	1,368.86
14510304650	46,50	364	215	MK 4	1	1,540.83
14510304700	47,00	364	215	MK 4	1	1,540.83
14510304750	47,50	364	215	MK 4	1	1,540.83
14510304800	48,00	369	220	MK 4	1	1,540.83
14510304850	48,50	369	220	MK 4	1	1,540.83
14510304900	49,00	369	220	MK 4	1	1,540.83
14510304950	49,50	369	220	MK 4	1	1,696.62
14510305000	50,00	369	220	MK 4	1	1,696.62
14511505100	51,00	412	225	MK 5	1	1,941.02
14511505200	52,00	412	225	MK 5	1	1,978.78
14511505300	53,00	412	225	MK 5	1	2,001.43
14511505400	54,00	417	230	MK 5	1	2,138.11
14511505500	55,00	417	230	MK 5	1	2,183.57
14511505600	56,00	417	230	MK 5	1	2,303.00
14511505700	57,00	422	235	MK 5	1	2,365.56
14511505800	58,00	422	235	MK 5	1	2,433.98
14511505900	59,00	422	235	MK 5	1	2,501.94
14511506000	60,00	422	235	MK 5	1	2,661.28
14511506500	65,00	432	245	MK 5	1	3,663.38
14511507000	70,00	437	250	MK 5	1	4,425.70
14511507500	75,00	442	255	MK 5	1	5,078.16

1460

Reductii Con Morse, conform DIN 2185

- *in conformitate cu DIN 2185*
- *executie din otel aliat de scule; tratate complet*
- *con interior alezat,*
- *con exterior rectificat*



DIN 2185

	Con Morse	LT	AMB	
14600300021	2 / 1	92	1	61.33
14600300031	3 / 1	99	1	79.05
14600300032	3 / 2	112	1	79.05
14600300041	4 / 1	124	1	99.24
14600300042	4 / 2	124	1	99.24
14600300043	4 / 3	140	1	99.24
14600300053	5 / 3	156	1	217.90
14600300054	5 / 4	171	1	217.90

1461

Prelungitor Con Morse, DIN 2187

- *in conformitate cu DIN 2187*
- *executie din otel aliat de scule; tratate complet*
- *con interior alezat,*
- *con exterior rectificat*



DIN 2187

	Con Morse	LT	AMB	
14610300011	1 / 1	145	1	113.11
14610300012	1 / 2	160	1	127.59
14610300013	1 / 3	181	1	157.18
14610300021	2 / 1	160	1	115.42
14610300022	2 / 2	175	1	142.39
14610300023	2 / 3	196	1	157.18
14610300024	2 / 4	221	1	211.11
14610300031	3 / 1	175	1	161.96
14610300032	3 / 2	194	1	161.96
14610300033	3 / 3	215	1	181.68
14610300034	3 / 4	240	1	220.98
14610300041	4 / 1	200	1	245.48
14610300042	4 / 2	210	1	211.11
14610300043	4 / 3	140	1	220.98
14610300044	4 / 4	265	1	294.48
14610300045	4 / 5	300	1	574.32

1462

Pana extractie DIN 317

- *in conformitate cu DIN 317*
- *executie din otel aliat de scule; complet tratata,*
- *pentru scule si portscule cu Con Morse, conform DIN 228*



DIN 317

	Con Morse	LT	AMB	
14620700012	MK 1 + 2	140	1	38.68
14620700003	MK 3	190	1	56.09
14620700004	MK 4	225	1	116.50
14620700056	MK 5 + 6	265	1	180.30

1463

Arbore/dorn portmandrina DIN 238

- *in conformitate cu DIN 238*
- *executie din otel aliat de scule; complet tratat*
- *fetele celor doua conuri rectificate, dintr-o singura prindere*



DIN 238

	Con Morse	Con mandrina	LT	AMB	
14630300110	MK 1	B 10	86	1	36.68
14630300112	MK 1	B 12	90	1	37.45
14630300116	MK 1	B 16	97	1	37.45
14630300210	MK 2	B 10	101	1	42.07
14630300212	MK 2	B 12	105	1	39.76
14630300216	MK 2	B 16	112	1	39.76
14630300218	MK 2	B 18	120	1	39.76
14630300312	MK 3	B 12	124	1	51.31
14630300316	MK 3	B 16	131	1	56.09
14630300318	MK 3	B 18	139	1	56.09
14630300416	MK 4	B 16	156	1	79.51
14630300418	MK 4	B 18	164	1	79.51

1600

Burghiu de centruire DIN 333 A HSS

- *burghiu de centruire DIN 333, forma A, HSS,*
- *tratat complet, suprafete rectificate*
- *unghi de centrare: 60º, pentru gauri de centare conform DIN 332*
- *unghiul la varf: 120º*
- *taiere pe dreapta*
- *destinate pentru gaurire in oteluri ne aliate si aliate, sau piese turnate din oteluri, cu σr ≤ 800 N / mm², gaurire in materiale neferoase (aliaje de aluminiu, cupru si bronzuri) si in mase plastice*
- *se pot folosi pe masini de gaurit, utilaje stationare*



DIN 333 | HSS G | FORM A/60°

	Dimensiune	Diametru	AMB	
16000300100	1,00	3,15	1	12.79
16000300125	1,20	3,15	1	12.79
16000300160	1,60	4,00	1	13.25
16000300200	2,00	5,00	1	15.26
16000300250	2,50	6,30	1	17.72
16000300315	3,15	8,00	1	22.19
16000300400	4,00	10,00	1	34.52
16000300500	5,00	12,50	1	47.15
16000300630	6,30	16,00	1	79.51

1500

Burghiu cilindric pentru metal DIN 8037, 118°, HSS-HM, placat HM

• burghie cilindrice pentru metal, conform DIN 8037, 118°, HSS-HM
• pentru otel, fonta, otel de arc, cu duritatea peste 300 HB, bronz ductil, molibden purtratat complet,
• suprafete rectificate
• unghiul la varf: 118º
• taiere pe dreapta
• destinate pentru gaurire in oteluri ne aliate si slab aliate cu σr ≤ 800 N / mm², oteluri pentru tratament termic cu σr≤1400 N/mm², gaurire in oteluri inoxidabile, sau piese turnate din oteluri, sau piese din fonta cu duritatea ≤ 300 HB, gaurire in materiale neferoase (aliaje de cupru si bronzuri)
• se pot folosi pe masini de gaurit, utilaje stationare , cat si pe masini de gaurit portabile



PROFI by BOHRCRAFT PLUS | DIN 8037 | HSS HM | 118°

	LT	LU	AMB	
15000700250	2,50	46	1	95.39
15000700300	3,00	50	1	86.30
15000700350	3,50	56	1	87.99
15000700400	4,00	56	1	84.60
15000700420	4,20	63	1	98.16
15000700450	4,50	63	1	84.60
15000700500	5,00	63	1	84.60
15000700550	5,50	71	1	84.60
15000700600	6,00	71	1	96.00
15000700650	6,50	71	1	98.01
15000700680	6,80	80	1	112.65
15000700700	7,00	80	1	109.41
15000700750	7,50	80	1	115.11
15000700800	8,00	80	1	122.82
15000700850	8,50	90	1	128.36
15000700900	9,00	90	1	130.98
15000700950	9,50	90	1	142.23
15000701000	10,00	100	1	164.42
15000701020	10,20	100	1	192.62
15000701050	10,50	100	1	192.62
15000701100	11,00	100	1	197.40
15000701150	11,50	112	1	231.15
15000701200	12,00	112	1	232.07
15000701250	12,50	112	1	260.43
15000701300	13,00	112	1	264.90

1761

Burghiu in trepte cu canale drepte, titanizate

• burghiu in trepte cu canale drepte, norma BOHRCRAFT
• material: HSS, acoperire TiN, taiere pe dreapta, coada cilindrica
• ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida
• pentru executatrea gaurilor mari in table de otel cu grosimi de pana la 2 mm si in neferoase sau nemetale cu grosimi pana la 4 mm
• destinate pentru gaurire in oteluri ne aliate si slab aliate cu σr ≤ 800 N / mm², oteluri pentru tratament termic cu σr≤1100 N/mm², gaurire in oteluri inoxidabile sau alite cu Titan, gaurire in materiale neferoase (aliaje de cupru) si in mase plastice
• se pot folosi pe masini de gaurit, utilaje stationare , cat si pe masini de gaurit portabile



TiN

	MARIME	DIM.	TREPTE	COADA	AMB	
17610300022	2A	4,0-20,0	4, 6, 8, 10, 12, 14, 16, 18, 20 9 / trepte	8	1	281.38
17610300033	3A	4,0-30,0	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 / 14 trepte	10	1	410.67

1760

Burghiu in trepte cu canale drepte

• burghiu in trepte cu canale drepte, norma BOHRCRAFT
• material: HSS, taiere pe dreapta, coada cilindrica
• ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida
• pentru executatrea gaurilor mari in table de otel cu grosimi de pana la 2 mm si in neferoase sau nemetale cu grosimi pana la 4 mm
• destinate pentru gaurire in oteluri ne aliate si slab aliate cu σr ≤ 800 N / mm², gaurire in materiale neferoase (aliaje de aluminiu, cupru si bronzuri) si in mase plastice
se pot folosi pe masini de gaurit, utilaje stationare , cat si pe masini de gaurit portabile



BOHRCRAFT NORM | HSS G | CBN | DIN 1412 C SPLIT POINT

	MARIME	DIM.	TREPTE	COADA	AMB	
17600300001	1	4,0-12,0	9 / 1 mm	6	1	151.02
17600300003	3	20,0-30,0	11 / 1 mm	10	1	333.31
17600300022	2A	4,0-20,0	4, 6, 8, 10, 12, 14, 16, 18, 20 9 / trepte	8	1	194.93
17600300033	3A	4,0-30,0	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 / 14 trepte	10	1	290.01

1763

Burghiu in trepte cu canale elicoidale

• burghiu in trepte cu canale elicoidale, norma BOHRCRAFT
• material: HSS, taiere pe dreapta, coada cilindrica
• ascutire suplimentara pe fata de asezare si micsorarea taisului transversal, conform DIN 1412 C, pentru o aschiere mai usoara / micsorarea fortei de aschiere si o gaurire mai rapida
• pentru executatrea gaurilor mari in table de otel cu grosimi de pana la 2 mm si in neferoase sau nemetale cu grosimi pana la 4 mm
• destinate pentru gaurire in oteluri ne aliate si slab aliate cu σr ≤ 800 N / mm², gaurire in materiale neferoase (aliaje de aluminiu, cupru si bronzuri) si in mase plastice
• se pot folosi pe masini de gaurit, utilaje stationare, cat si pe masini de gaurit portabile



BOHRCRAFT NORM | HSS G | CBN | DIN 1412 C SPLIT POINT

	MARIME	DIM.	TREPTE	COADA	AMB	
17630300001	1-S	4,0-12,0	9 / 1 mm	6	1	194.47
17630300022	2A-S	4,0-20,0	4, 6, 8, 10, 12, 14, 16, 18, 20 / 9 trepte	10	1	256.73
17630300033	3A-S	4,0-30,0	4, 6, 8,10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 / 14 trepte	8	1	401.43
17630300066	6-S	4,0-39,0	4, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39 / 13 trepte	10	1	618.86

1700

Tesitor conic DIN 335 forma C 90º HSS

- *tesitor conic DIN 335 forma C 90º*
- *aterial : HSS, tratat termic*
- *cu 3 muchii taietoare ; unghiul la varf 90º*
- *suprafetele zencuite rezulta netede si fara arsuri.*
- *pentru o viteza de aschiere mai mare si cresterea duratei de viață a sculei se recomanda utilizarea cu lichid de racire*
- *destinate pentru zencuire in oteluri ne aliate si slab aliate, cu σr≤800 N/mm², in materiale neferoase (aliaje de aluminiu, cupru si bronzuri), materiale sinterizate diverse (nu in piese sinterizate din pulberi de oteluri sau din carburi metalice)*
- *se pot folosi atat pe masini / utilaje stationare si fixe, cat si pe masini portabile, electrice sau pneumatice*



BOHRCRAFT

DIN 335C | HSS G | 90° | CBN

	DIM.	COADA	DIN 74 AF	BF	AMB	
17000304390	4,3	4			1	**35.44**
17000305090	5,0	4	M 2,5		1	**35.44**
17000306090	6,0	5	M 3		1	**36.21**
17000306390	6,3	5		M 3	1	**29.12**
17000307090	7,0	6	M 3,5		1	**38.52**
17000307390	7,3	6			1	**32.05**
17000308090	8,0	6	M 4		1	**35.75**
17000308390	8,3	6		M 4	1	**33.13**
17000309490	9,4	6			1	**36.21**
17000310090	10,0	6	M 5		1	**43.30**
17000310490	10,4	6		M 5	1	**38.99**
17000311590	11,5	8	M 6		1	**52.09**
17000312090	12,0	8			1	**52.86**
17000312490	12,4	8		M 6	1	**50.54**
17000315090	15,0	10	M 8		1	**67.19**
17000316590	16,5	10		M 8	1	**68.27**
17000319090	19,0	10	M 10		1	**92.46**
17000320590	20,5	10		M 10	1	**93.69**
17000323090	23,0	10	M 12		1	**112.80**
17000325090	25,0	10		M 12	1	**117.42**
17000331090	31,0	12		M 16	1	**146.09**

1710

Tesitor conic DIN 335 forma C 90º HSS-E (Co 5%)

- *tesitor conic DIN 335 forma C 90º*
- *material : HSS-E (Co 5%), tratat termic*
- *cu 3 muchii taietoare ; unghiul la varf 90º*
- *suprafetele zencuite rezulta netede si fara arsuri.*
- *sentru o viteza de aschiere mai mare si cresterea duratei de viață a sculei se recomanda utilizarea cu lichid de racire*
- *destinate pentru zencuire in oteluri ne aliate si slab aliate cu σr≤800 N/mm², oteluri pentru tratament termic cu σr≤1100 N/mm², oteluri inoxidabile si materiale neferoase (aliaje de aluminiu, cupru si bronzuri), materiale plastice*
- *se pot folosi atat pe masini / utilaje stationare si fixe, cat si pe masini portabile, electrice sau pneumatice*



BOHRCRAFT

DIN 335C | HSS-E Co5 | 90° | CBN | VA INOX

	DIM.	COADA	DIAM VARF	BF	LT	AMB	
17100306390	6,3	5	1,5	M 3	45	1	**36.37**
17100308390	8,3	6	2,0	M 4	50	1	**44.69**
17100310490	10,4	6	2,5	M 5	50	1	**51.62**
17100312490	12,4	8	2,8	M 6	56	1	**60.56**
17100316590	16,5	10	3,2	M 8	60	1	**80.13**
17100320590	20,5	10	3,5	M 10	63	1	**106.94**
17100325090	25,0	10	3,8	M 12	67	1	**148.40**
17100331090	31,0	12	4,2	M 16	71	1	**222.83**



4100

Tarozi pentru filetare manuala, pas normal, DIN 352, HSS-G, 3 buc/set

- *tarozi pentru filetare manuala, filet metric, pas normal, DIN 352, HSS-G, 3 buc/set*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*
- *conul de atac :*
- *Nr. 1, 6-8 spire*
- *Nr. 2, 4-5 spire*
- *Nr. 3, 2-3 spire*
- *pentru gauri strapunse sau infundate*



BOHRCRAFT

M | DIN 352 | HSS G | ISO2 6H | 60° | 800 N/mm²

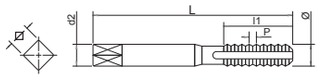
	M filet	Pas (mm)	Gaura (mm)	AMB	
41001100300	M 3	0,50	2,50	1	**38.22**
41001100400	M 4	0,70	3,30	1	**38.22**
41001100500	M 5	0,80	4,20	1	**39.91**
41001100600	M 6	1,00	5,00	1	**45.92**
41001100700	M 7	1,00	6,00	1	**56.86**
41001100800	M 8	1,25	6,80	1	**55.17**
41001100900	M 9	1,25	7,80	1	**91.69**
41001101000	M 10	1,50	8,50	1	**65.18**
41001101200	M 12	1,75	10,20	1	**81.36**
41001101400	M 14	2,00	12,00	1	**124.20**
41001101600	M 16	2,00	14,00	1	**149.63**
41001101800	M 18	2,50	15,50	1	**217.59**
41001102000	M 20	2,50	17,50	1	**232.69**
41001102200	M 22	2,50	19,50	1	**285.70**
41001102400	M 24	3,00	21,00	1	**328.23**
41001102700	M 27	3,00	24,00	1	**429.01**
41001103000	M 30	3,50	26,50	1	**546.12**
41001103300	M 33	3,50	29,50	1	**820.27**
41001103600	M 36	4,00	32,00	1	**1,026.45**

1050051

Tarozi pentru filetare manuala, pas normal, DIN 352, Forma C, HSS-G, 3 buc/set

- *tarozi pentru filetare manuala, filet metric, pas normal, DIN 352, HSS-G, 3 buc/set, forma C*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate de tratament termic, cu σr ≤ 700 N / mm²*
- *pentru gauri strapunse*





TIVOLY

HSS | BRIGHT UNCOATED | DIN 352 | x3 SET | C FORM | 6H | M

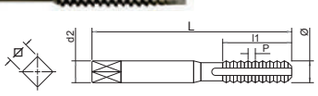
	Ø	P	L	l	d2	
1050051030050	M3	0,5	40	11	3,5	60.84
1050051040070	M4	0,7	45	13	4,5	60.84
1050051050080	M5	0,8	50	15	6	60.84
1050051060100	M6	1	50	16	6	63.43
1050051070100	M7	1	50	19	6	68.12
1050051080125	M8	1,25	56	22	6	73.08
1050051100150	M10	1,5	70	24	7	87.43
1050051120175	M12	1,75	75	29	9	106.30
1050051140200	M14	2	80	30	11	148.97
1050051160200	M16	2	80	32	12	188.88
1050051180250	M18	2,5	95	40	16	218.65
1050051200250	M20	2,5	90	40	16	279.70
1050051220250	M22	2,5	100	40	18	329.16
1050051240300	M24	3	110	45	18	405.69
1050051270300	M27	3	110	50	20	497.38
1050051300350	M30	3,5	125	56	22	650.61

1501511

Tarozi pentru filetare manuala, pas normal, DIN 352, Forma A, HSS-G, 3 buc/set

- *tarozi pentru filetare manuala, filet metric, pas normal, DIN 352, HSS-G, 3 buc/set, forma A*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *toleranta 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate de tratament termic, cu σr ≤ 950 N / mm²*
- *pentru gauri strapunse*





TIVOLY

HSS | BRIGHT UNCOATED | DIN 352 | x3 SET | A FORM | 6H | M

	Ø	P	L	l	d2	
150151100200040	M2	0,4	36	9	2,8	125.56
150151100250045	M2,5	0,45	40	10	2,8	122.27
150151100300050	M3	0,5	40	11	3,5	74.86
150151100350060	M3,5	0,6	45	13	4,0	89.91
150151100400070	M4	0,7	45	13	4,5	74.86
150151100500080	M5	0,8	45	15	6,0	77.88
150151100600100	M6	1,0	50	16	6,0	77.88
150151100700100	M7	1,0	50	19	6,0	96.54
150151100800125	M8	1,25	56	22	6,0	90.39
150151100900125	M9	1,25	63	22	6,0	154.74
150151101000150	M10	1,5	70	24	7,0	116.39
150151101100150	M11	1,5	70	24	8,0	195.03
150151101200175	M12	1,75	75	29	9,0	166.66
150151101400200	M14	2,0	80	30	11,0	196.81
150151101600200	M16	2,0	80	32	12,0	269.56
150151101800250	M18	2,5	95	40	14,0	368.26
150151102000250	M20	2,5	95	40	16,0	408.82
150151102200250	M22	2,5	100	40	18,0	539.07
150151102400300	M24	3,0	110	45	18,0	632.54
150151102700300	M27	3,0	110	50	20,0	805.67
150151103000350	M30	3,5	125	56	22,0	1,029.82
150151103300350	M33	3,5	125	56	25,0	1,308.23
150151103600400	M36	4,0	150	63	28,0	1,670.67
150151103900400	M39	4,0	150	63	32,0	1,861.98
150151104200450	M42	4,5	150	63	32,0	2,341.19
150151104500450	M45	4,5	160	70	36,0	2,597.59
150151105200500	M52	5,0	160	75	40,0	3,661.72

4109

Tarozi pentru filetare manuala, pas normal, pe stanga, DIN 352, HSS-G, 3 buc/set

- *tarozi pentru filetare manuala, filet metric, pas normal, pe stanga, DIN 352, HSS-G, 3 buc/set*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *toleranta 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*
- *conul de atac :*
- *Nr1., 6-8 spire*
- *Nr2., 4-5 spire*
- *Nr3., 2-3 spire*
- *pentru gauri strapunse sau infundate*



BOC BOHRCRAFT

M | DIN 352 | HSS G | LINKS LEFT | ISO2 6H | 60° | 800 N/mm²

	M filet	Pas (mm)	Gaura (mm)	AMB	
41091100300	M 3	0,50	2,50	1	67.19
41091100400	M 4	0,70	3,30	1	67.19
41091100500	M 5	0,80	4,20	1	69.04
41091100600	M 6	1,00	5,00	1	71.04
41091100800	M 8	1,25	6,80	1	83.68
41091101000	M 10	1,50	8,50	1	107.71
41091101200	M 12	1,75	10,20	1	136.69
41091101400	M 14	2,00	12,00	1	164.11
41091101600	M 16	2,00	14,00	1	196.63
41091101800	M 18	2,50	15,50	1	277.07
41091102000	M 20	2,50	17,50	1	304.19
41091102200	M 22	2,50	19,50	1	406.51
41091102400	M 24	3,00	21,00	1	461.99

4110

Tarozi pentru filetare manuala, pas normal, DIN 352, HSS-E (5% Co) VAP, 3 buc/set

- *tarozi pentru filetare manuala, filet metric, pas normal, DIN 352, HSS-E (5% Co) VAP, 3 buc/set*
- *material: HSS-E (5% Co), profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate, aliate si inoxidabile σr ≤ 1000 N / mm²*
- *conul de atac :*
- *Nr1., 6-8 spire*
- *Nr2., 4-5 spire*
- *Nr3., 2-3 spire*
- *pentru gauri strapunse sau infundate*



BOHRCRAFT

PROFI by BOHRCRAFT PLUS

M | DIN 352 | HSS-E Co5 | VAP | VA INOX | ISO2 6H | 60° | 1000 N/mm²

	M filet	Pas (mm)	Gaura (mm)	AMB	
41101100300	M 3	0,50	2,50	1	81.83
41101100400	M 4	0,70	3,30	1	83.98
41101100500	M 5	0,80	4,20	1	98.47
41101100600	M 6	1,00	5,00	1	102.17
41101100800	M 8	1,25	6,80	1	125.59
41101101000	M 10	1,50	8,50	1	165.35
41101101200	M 12	1,75	10,20	1	208.80
41101101400	M 14	2,00	12,00	1	214.20
41101101600	M 16	2,00	14,00	1	359.67
41101101800	M 18	2,50	15,50	1	369.68
41101102000	M 20	2,50	17,50	1	409.44

4200

Filiera pentru filet metric, pas normal, DIN 22568 (DIN 223 B) HSS-G

- *filiera pentru filet metric, pas normal, DIN 22568 (DIN 223 B) HSS-G*
- *material HSS; tratament termic integral*
- *parametri filet conform DIN ISO 13*
- *tolerant 6g, conform ISO 2*
- *tip B, taiere pe dreapta*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*



BOHRCRAFT

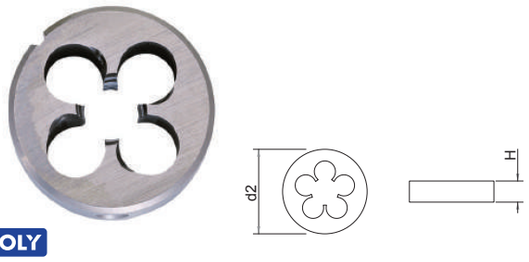
M | DIN EN 22568 | HSS G | FORM B | Tol. 6g | 60° | 800 N/mm²

	M filet	Pas (mm)	Diametru (mm)	AMB	
42001100300	M 3	0,50	20 x 5	1	20.19
42001100400	M 4	0,70	20 x 5	1	20.19
42001100500	M 5	0,80	20 x 5	1	21.57
42001100600	M 6	1,00	20 x 5	1	22.81
42001100800	M 8	1,25	25 x 9	1	25.89
42001101000	M 10	1,50	30 x 11	1	40.68
42001101200	M 12	1,75	38 x 14	1	67.34
42001101400	M 14	2,00	38 x 14	1	74.43
42001101600	M 16	2,00	45 x 18	1	110.80
42001101800	M 18	2,50	45 x 18	1	110.80
42001102000	M 20	2,50	45 x 18	1	110.80
42001102200	M 22	2,50	55 x 22	1	175.21
42001102400	M 24	3,00	55 x 22	1	175.21
42001102700	M 27	3,00	65 x 25	1	271.06
42001103000	M 30	3,50	65 x 25	1	271.06
42001103300	M 33	3,50	65 x 25	1	271.06
42001103600	M 36	4,00	65 x 25	1	271.06

1100411

Filiera pentru filet metric, pas normal, DIN 22568 (DIN 223 B) HSS-G

- *filiera pentru filet metric, pas normal, DIN 22568 (DIN 223 B) HSS-G*
- *material HSS; tratament termic integral*
- *parametri filet conform DIN ISO 13*
- *toleranta 6g, conform ISO 2*
- *forma B, taiere pe dreapta*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 700 N / mm², aliaje de aluminiu*



TIVOLY

HSS | BRIGHT UNCOATED | EN 22568 | 16-75 | GUN B FORM | M

	Ø	P	L	l	
1100411020040	M2	0,4	5	16	145.14
1100411025045	M2,5	0,45	5	16	126.96
1100411030050	M3	0,5	5	20	117.90
1100411040070	M4	0,7	5	20	117.90
1100411050080	M5	0,8	7	20	110.62
1100411060100	M6	1,0	7	20	110.62
1100411070100	M7	1,0	9	25	139.64
1100411080125	M8	1,25	9	25	117.90
1100411090125	M9	1,25	9	25	154.14
1100411100150	M10	1,5	11	30	149.72
1100411110150	M11	1,5	11	30	185.86
1100411120175	M12	1,75	14	38	185.86
1100411140200	M14	2,0	14	38	185.86
1100411160200	M16	2,0	18	45	252.09
1100411180250	M18	2,5	18	45	259.21
1100411200250	M20	2,5	18	45	259.21
1100411220250	M22	2,5	22	55	373.55
1100411240300	M24	3,0	22	55	373.55
1100411270300	M27	3,0	25	65	533.95
1100411300350	M30	3,5	25	65	533.95
1100411330350	M33	3,5	25	65	634.54
1100411360400	M36	4,0	25	65	634.54
1100411390400	M39	4,0	30	75	906.53
1100411420450	M42	4,5	30	75	997.19

4210

Filiera pentru filet metric, pas normal, DIN 22568 (DIN 223 B) HSS-E (5% Co) VAP

- *filiera pentru filet metric pas normal, DIN 22568 (DIN 223 B) HSS-E (5% Co) VAP*
- *material HSS; tratament termic integral*
- *parametri filet conform DIN ISO 13*
- *tolerant 6g, conform ISO 2*
- *tip B, taiere pe dreapta*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri nealiate, aliate, inoxidabile, cu σr ≤ 1000 N / mm²*



BOHRCRAFT

PROFI by BOHRCRAFT PLUS

M | DIN EN 22568 | HSS-E Co5 | VAP | VA INOX | FORM B | Tol. 6g | 60° | 1000 N/mm²

	M filet	Pas (mm)	Diametru (mm)	AMB	
42101100300	M 3	0,50	20 x 5	1	68.57
42101100400	M 4	0,70	20 x 5	1	68.57
42101100500	M 5	0,80	20 x 5	1	68.57
42101100600	M 6	1,00	20 x 5	1	68.57
42101100800	M 8	1,25	25 x 9	1	84.45

	M filet	Pas (mm)	Diametru (mm)	AMB	
42101101000	M 10	1,50	30 x 11	1	**120.35**
42101101200	M 12	1,75	38 x 14	1	**189.08**
42101101400	M 14	2,00	38 x 14	1	**190.00**
42101101600	M 16	2,00	45 x 18	1	**304.19**
42101101800	M 18	2,50	45 x 18	1	**304.19**
42101102000	M 20	2,50	45 x 18	1	**304.19**

4209

Filiera pentru filet metric, pas normal, pe stanga, DIN 22568 (DIN 223 B) HSS-G

- *filiera pentru filet metric, pas normal, pe stanga, DIN 22568 (DIN 223 B) HSS-G*
- *material HSS; tratament termic integral*
- *parametri filet conform DIN ISO 13*
- *tolerant 6g, conform ISO 2*
- *tip B, taiere pe stanga*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*



BOHRCRAFT

M | DIN EN 22568 | HSS G | LINKS LEFT | FORM B | Tol. 6g | 60° | 800 N/mm²

	M filet	Pas (mm)	Diametru (mm)	AMB	
42091100300	M 3	0,50	20 x 5	1	**47.46**
42091100400	M 4	0,70	20 x 5	1	**47.46**
42091100500	M 5	0,80	20 x 5	1	**50.24**
42091100600	M 6	1,00	20 x 5	1	**50.24**
42091100800	M 8	1,25	25 x 9	1	**53.78**
42091101000	M 10	1,50	30 x 11	1	**64.41**
42091101200	M 12	1,75	38 x 14	1	**82.29**
42091101400	M 14	2,00	38 x 14	1	**93.08**
42091101600	M 16	2,00	45 x 18	1	**133.14**
42091101800	M 18	2,50	45 x 18	1	**133.14**
42091102000	M 20	2,50	45 x 18	1	**133.14**
42091102200	M 22	2,50	55 x 22	1	**214.97**
42091102400	M 24	3,00	55 x 22	1	**214.97**

4101

Tarozi pentru filetare manuala MF DIN 2181 HSS-G, pas fin, 2 buc/set

- *tarozi pentru filetare manuala, filet metric, pas fin, DIN 2181, HSS-G, 2 buc/set*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*
- *conul de atac :*
- *Nr1., 5-6 spire*
- *Nr2., 2-3 spire*
- *pentru gauri strapunse sau infundate*



BOHRCRAFT | MF | DIN 2181 | HSS G | ISO2 6H | 60° | 800 N/mm²

	M filet	Pas (mm)	Gaura (mm)	AMB	
41011100303	MF 3	0,35	2,60	1	**69.19**
41011100405	MF 4	0,50	3,50	1	**56.71**
41011100505	MF 5	0,50	4,50	1	**60.71**
41011100607	MF 6	0,75	5,20	1	**63.64**
41011100807	MF 8	0,75	7,20	1	**74.89**
41011100810	MF 8	1,00	7,00	1	**60.71**
41011101010	MF 10	1,00	9,00	1	**67.50**
41011101012	MF 10	1,25	8,70	1	**78.44**

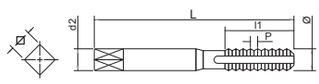
	M filet	Pas (mm)	Gaura (mm)	AMB	
41011101210	MF 12	1,00	11,00	1	**79.98**
41011101212	MF 12	1,25	10,70	1	**88.14**
41011101215	MF 12	1,50	10,50	1	**79.98**
41011101410	MF 14	1,00	13,00	1	**110.95**
41011101412	MF 14	1,25	12,70	1	**110.95**
41011101415	MF 14	1,50	12,50	1	**95.85**
41011101610	MF 16	1,00	15,00	1	**126.98**
41011101615	MF 16	1,50	14,50	1	**120.66**
41011101815	MF 18	1,50	16,50	1	**139.15**
41011102015	MF 20	1,50	18,50	1	**173.67**
41011102215	MF 22	1,50	20,50	1	**219.59**
41011102415	MF 24	1,50	22,50	1	**230.69**
41011102420	MF 24	2,00	22,00	1	**289.70**
41011102515	MF 25	1,50	23,50	1	**496.81**
41011102615	MF 26	1,50	24,50	1	**496.81**
41011102715	MF 27	1,50	25,50	1	**496.81**
41011102815	MF 28	1,50	26,50	1	**662.31**
41011103015	MF 30	1,50	28,50	1	**776.19**
41011103020	MF 30	2,00	28,00	1	**776.19**
41011103215	MF 32	1,50	30,50	1	**776.19**
41011103515	MF 35	1,50	33,50	1	**974.36**
41011103615	MF 36	1,50	34,50	1	**1,026.45**
41011103620	MF 36	2,00	34,00	1	**1,026.45**
41011104015	MF 40	1,50	38,50	1	**1,162.06**

1501521

Tarozi pentru filetare manuala MF DIN 2181 Forma C, HSS-G, pas fin, 2 buc/set

- *tarozi pentru filetare manuala, filet metric, pas fin, DIN 2181, HSS-G, 2 buc/set*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *toleranta 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma C, pentru gauri strapunse*
- *destinate pentru filetare in oteluri ne aliate, aliate si pentru tratament termic cu σr ≤ 950 N / mm²*





TIVOLY

HSS | BRIGHT UNCOATED | DIN 2181 | x2 SET | C FORM | 6H | MF

	Ø	P	L	l	d2	
150152100400050	MF4	0,5	50	14,5	6	**127.66**
150152100500050	MF5	0,5	50	11	6	**136.29**
150152100600050	MF6	0,5	50	14	6	**106.57**
150152100600075	MF6	0,75	50	14	6	**82.36**
150152100700075	MF7	0,75	50	19	6	**97.03**
150152100800075	MF8	0,75	50	18	6	**111.21**
150152100800100	MF8	1,0	56	22	6	**82.30**
150152101000100	MF10	1,0	63	18	7	**88.13**
150152101000125	MF10	1,25	70	24	7	**89.26**
150152101100100	MF11	1,0	63	20	8	**155.12**
150152101200100	MF12	1,0	70	20	9	**153.93**
150152101200125	MF12	1,25	70	20	9	**154.20**
150152101200150	MF12	1,5	70	20	9	**131.49**
150152101400100	MF14	1,0	70	22	11	**230.52**
150152101400125	MF14	1,25	0	22	11	**202.90**
150152101400150	MF14	1,5	70	22	11	**157.81**
150152101600100	MF16	1,0	70	22	12	**322.96**
150152101600150	MF16	1,5	70	22	12	**197.35**
150152101800100	MF18	1,0	80	22	14	**358.83**
150152101800150	MF18	1,5	80	22	14	**261.04**
150152101800200	MF18	2,0	80	22	14	**382.93**
150152102000100	MF20	1,0	80	22	16	**475.54**
150152102000150	MF20	1,5	80	22	16	**326.90**
150152102000200	MF20	2,0	80	22	16	**398.85**
150152102200150	MF22	1,5	80	22	18	**356.45**
150152102200200	MF22	2,0	80	22	18	**532.93**
150152102400150	MF24	1,5	90	22	18	**454.78**
150152102400200	MF24	2,0	90	22	18	**596.03**
150152102700150	MF27	1,5	90	22	20	**748.39**
150152102700200	MF27	2,0	90	22	18	**826.06**
150152103000150	MF30	1,5	90	22	22	**777.03**
150152103000200	MF30	2,0	90	22	22	**895.74**

4202

Filiera pentru filet metric, pas fin, DIN 22568 (DIN 223 B) HSS-G

- *filiera pentru filet metric, pas fin, DIN 22568 (DIN 223 B) HSS-G*
- *material HSS; tratament termic integral*
- *parametri filet conform DIN ISO 13*
- *tolerant 6g, conform ISO 2*
- *tip B, taiere pe dreapta*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*



BOHRCRAFT | MF | DIN EN 22568 | HSS G | FORM B | Tol. 6g | 60° | 800 N/mm²

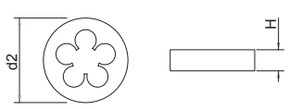
	M filet	Pas (mm)	Diametru (mm)	AMB	
42021100607	MF 6	0,75	20 x 7	1	**45.00**
42021100807	MF 8	0,75	25 x 9	1	**47.46**
42021100810	MF 8	1,00	25 x 9	1	**45.77**
42021101010	MF 10	1,00	30 x 11	1	**59.48**
42021101012	MF 10	1,25	30 x 11	1	**62.10**
42021101210	MF 12	1,00	38 x 10	1	**75.05**
42021101212	MF 12	1,25	38 x 10	1	**75.05**
42021101215	MF 12	1,50	38 x 10	1	**75.05**
42021101412	MF 14	1,25	38 x 10	1	**89.69**
42021101415	MF 14	1,50	38 x 10	1	**81.67**
42021101615	MF 16	1,50	45 x 14	1	**114.96**
42021101815	MF 18	1,50	45 x 14	1	**114.96**
42021102015	MF 20	1,50	45 x 14	1	**117.27**
42021102215	MF 22	1,50	55 x 16	1	**194.78**
42021102415	MF 24	1,50	55 x 16	1	**194.78**
42021102420	MF 24	2,00	55 x 16	1	**194.78**
42021102515	MF 25	1,50	55 x 16	1	**262.12**
42021102615	MF 26	1,50	55 x 16	1	**296.49**
42021102715	MF 27	1,50	65 x 18	1	**296.49**
42021102815	MF 28	1,50	65 x 18	1	**296.49**
42021103015	MF 30	1,50	65 x 18	1	**296.49**
42021103020	MF 30	2,00	65 x 18	1	**296.49**
42021103215	MF 32	1,50	65 x 18	1	**296.49**
42021103515	MF 35	1,50	65 x 18	1	**296.49**
42021103615	MF 36	1,50	65 x 18	1	**296.49**
42021103620	MF 36	2,00	65 x 18	1	**296.49**
42021104015	MF 40	1,50	75 x 20	1	**388.48**

1100441

Filiera pentru filet metric, pas fin, DIN 22568 (DIN 223 B) HSS-G

- *filiera pentru filet metric, pas fin, DIN 22568 (DIN 223 B) HSS-G*
- *material HSS; tratament termic integral*
- *parametri filet conform DIN ISO 13*
- *toleranta 6g, conform ISO 2*
- *forma B, taiere pe dreapta*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 700 N / mm², aliaje de aluminiu*





TIVOLY | HSS | BRIGHT UNCOATED | EN 22568 | 25-65 | GUN B FORM | MF

	Ø	P	L	l	
1100441080100	MF8	1,0	9	25	**141.47**
1100441100100	MF10	1,0	11	30	**182.30**
1100441100125	MF10	1,25	11	30	**185.00**
1100441120100	MF12	1,0	10	38	**208.46**
1100441120125	MF12	1,25	10	38	**231.16**
1100441120150	MF12	1,5	10	38	**203.06**
1100441140100	MF14	1,0	10	38	**218.54**
1100441140125	MF14	1,25	10	38	**233.97**
1100441140150	MF14	1,5	10	38	**226.58**
1100441160150	MF16	1,5	14	45	**288.28**
1100441180150	MF18	1,5	14	45	**292.00**
1100441200150	MF20	1,5	14	45	**297.39**
1100441220150	MF22	1,5	16	55	**396.09**
1100441240150	MF24	1,5	16	55	**404.35**
1100441300150	MF30	1,5	16	65	**561.19**

4102

Tarozi pentru filetare manuala, filet GAZ (BSP), DIN 5157 HSS-G, 2 buc/set

- *tarozi pentru filetare manuala, filet GAZ (BSP, British Standard Pipe), DIN 5157 HSS-G, 2 buc/set*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 228/1 (DIN 259), tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 55°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*
- *conul de atac :*
- *Nr1., 5-6 spire*
- *Nr2., 2-3 spire*
- *pentru gauri strapunse sau infundate*



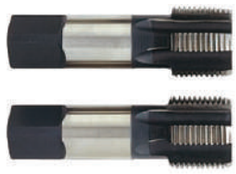
BOHRCRAFT | G BSP | DIN 5157 | HSS G | 55° | 800 N/mm²

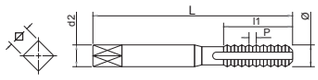
	G/BSP	PAS	GAURA (mm)	AMB	
41021100018	G 1/8"	28	8,80	1	**68.27**
41021100014	G 1/4"	19	11,80	1	**75.82**
41021100038	G 3/8"	19	15,25	1	**112.03**
41021100012	G 1/2"	14	19,00	1	**151.63**
41021100058	G 5/8"	14	21,00	1	**227.30**
41021100034	G 3/4"	14	24,50	1	**227.30**
41021100100	G 1"	11	30,75	1	**386.32**

9531021

Tarozi pentru filetare manuala, filet GAZ (BSP), DIN 5157 HSS-G, 2 buc/set

- *tarozi pentru filetare manuala, filet GAZ (BSP, British Standard Pipe), DIN 5157 HSS-G, 2 buc/set*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 228/1 (DIN 259)*
- *toleranta 6H, conform ISO 2*
- *unghiul flancurilor filetului 55°*
- *pentru filetare in oteluri ne aliate, aliate si pentru tratament termic cu σr ≤ 950 N / mm²*
- *pentru gauri strapunse sau infundate*





TIVOLY | HSS | BRIGHT UNCOATED | DIN 5157 | x2 SET | BSP G

	Ø	P	L	l	d2	
953102100180280	1/8"	28	63	18	7	**139.74**
953102100140190	1/4"	19	70	20	11	**196.81**
953102100380190	3/8"	19	70	20	12	**247.24**
953102100120140	1/2"	14	80	22	16	**346.80**
953102100580140	5/8"	14	80	22	18	**443.83**
953102100340140	3/4"	14	90	22	20	**541.39**
953102100780140	7/8"	14	90	22	22	**721.97**
953102110000110	1"	11	100	25	25	**858.37**
953102110180110	1"1/8	11	125	32	28	**1,223.07**
953102110140110	1"1/4	11	125	32	32	**1,346.10**
953102110380110	1"3/8	11	125	32	36	**1,810.20**
953102110120110	1"1/2	11	140	32	36	**2,034.35**
953102120000110	2"	11	160	36	45	**3,712.14**

4203

Filiera rotunda pentru filet GAZ (BSP), conform DIN 24231, (forma conf DIN 5158), HSS-G

- *filiera pentru filet GAZ, DIN EN 24231 (DIN 228/1) forma B, HSS-G*
- *material HSS; tratament termic integral*
- *parametri filet conform DIN ISO 228/1*
- *tip B, taiere pe dreapta*
- *unghiul flancurilor filetului 55°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*



BSW | DIN EN 22568 | HSS G | FORM B | 55° | 800 N/mm²

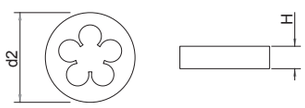
	G/BSP filet	Pas (mm)	Diametru (mm)	AMB	
42031100018	G 1/8"	28	30 x 11	1	100.01
42031100014	G 1/4"	19	38 x 10	1	100.01
42031100038	G 3/8"	19	45 x 14	1	132.83
42031100012	G 1/2"	14	45 x 14	1	131.75
42031100058	G 5/8"	14	55 x 16	1	209.27
42031100034	G 3/4"	14	55 x 16	1	219.74
42031100100	G 1"	11	65 x 18	1	288.93

1100491

Filiera rotunda pentru filet GAZ (BSP), conform DIN 24231, (forma conf DIN 5158), HSS-G

- *filiera pentru filet GAZ, DIN EN 24231 (DIN 228/1) forma B, HSS-G*
- *material HSS; tratament termic integral*
- *parametri filet conform DIN ISO 228/1*
- *forma B, taiere pe dreapta*
- *unghiul flancurilor filetului 55°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 700 N / mm², aliaje de aluminiu*





TIVOLY

HSS | BRIGHT UNCOATED | EN 24231 | 30-90 | GUN B FORM | BSP G

	Ø	P	L	l	
11004910108	G1/8"	28	11	30	195.19
11004910104	G1/4"	19	10	38	205.27
11004910308	G3/8"	19	14	45	284.07
11004910102	G1/2"	14	14	45	284.07
11004910508	G5/8"	14	16	55	442.59
11004910304	G3/4"	14	16	55	381.26
11004910708	G7/8"	14	18	65	575.59
11004911000	G1"	11	18	65	575.59
11004911104	G1.1/4"	11	20	75	915.38
11004911102	G1.1/2"	11	22	90	1,433.25

4120

Tarozi pentru filetare dintr-o singura operatie DIN 352 HSS-G, unici

- *tarozi pentru utilizare manuala sau pe masina, filet metric, pas normal, DIN 352, HSS-G, unic (o trcere)*
- *material: HSS, tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma B, taiere pe dreapta*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*
- *conul de atac : 4-5 spire*
- *pentru gauri strapunse*



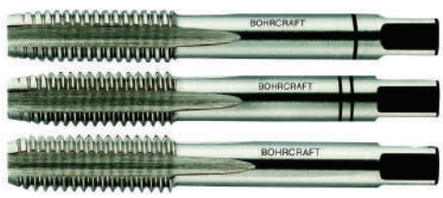
M | DIN 352 | HSS G | FORM B | ISO2 6H | 60° | 800 N/mm²

	M filet	PAS(mm)	GAURA(mm)	AMB	
41200300300	M 3	0,50	2,50	1	13.56
41200300400	M 4	0,70	3,30	1	13.56
41200300500	M 5	0,80	4,20	1	14.33
41200300600	M 6	1,00	5,00	1	15.41
41200300800	M 8	1,25	6,80	1	20.80
41200301000	M 10	1,50	8,50	1	23.73
41200301200	M 12	1,75	10,20	1	31.13

4103

Tarozi pentru filetare manuala, filet BSW, similar DIN 352, HSS-G, 3 buc/set

- *tarozi pentru filetare manuala, filet BSW (Britisch Standard Whitworth),*
- *similar DIN 352, HSS-G, 3 buc/set*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform BS84*
- *unghiul flancurilor filetului 55°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*
- *conul de atac :*
- *Nr1., 6-8 spire*
- *Nr2., 4-5 spire*
- *Nr3., 2-3 spire*
- *pentru gauri strapunse sau infundate*



BSW | ~DIN 352 | HSS G | 55° | 800 N/mm²

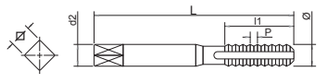
	BSW filet	Pas (mm)	Gaura (mm)	AMB	
41031100018	W 1/8	40	2,60	1	85.22
41031100532	W 5/32	32	3,10	1	85.22
41031100316	W 3/16	24	3,60	1	85.22
41031100014	W 1/4	20	5,10	1	85.22
41031100516	W 5/16	18	6,50	1	94.00
41031100038	W 3/8	16	7,90	1	106.94
41031100716	W 7/16	14	9,30	1	133.30
41031100012	W 1/2	12	10,50	1	159.49
41031100916	W 9/16	12	12,00	1	207.57
41031100058	W 5/8	11	13,50	1	235.92
41031100034	W 3/4	10	16,50	1	312.36
41031100078	W 7/8	9	19,25	1	421.46
41031100100	W 1	8	22,00	1	480.48

9511011

Tarozi pentru filetare manuala, filet BSW, similar DIN 352, HSS-G, 3 buc/set

- *tarozi pentru filetare manuala, filet BSW (Britisch Standard Whitworth), similar DIN 352, HSS-G, 3 buc/set*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform BS84*
- *unghiul flancurilor filetului 55°*
- *pentru filetare in oteluri ne aliate, aliate si pentru tratament termic cu σr ≤ 950 N / mm²*
- *pentru gauri strapunse*





HSS | BRIGHT UNCOATED | DIN 352 | x3 SET | BSW | TIVOLY

	Ø	P	L	l	d2	
951101100180400	1/8"	40	40	11	3,5	**116.12**
951101100532320	5/32"	32	45	13	4,5	**116.12**
951101100316240	3/16"	24	50	16	6	**116.12**
951101100732240	7/32"	24	50	18	6	**172.48**
951101100140200	1/4"	20	56	22	6	**132.14**
951101100516180	5/16"	18	63	25	6	**157.16**
951101100380160	3/8"	16	70	28	7	**173.78**
951101100716140	7/16"	14	75	30	8	**227.77**
951101100120120	1/2"	12	80	32	9	**251.66**
951101100916120	9/16"	12	80	32	9	**333.10**
951101100580110	5/18"	0	0	0	0	**389.08**
951101100340100	3/4"	10	105	40	14	**556.28**
951101100780090	7/8"	9	110	45	18	**693.11**
951101110000080	1"	8	110	50	20	**849.41**
951101110140070	1.1/4"	7	125	56	25	**1,508.22**

4205

Filiera pentru filet BSW, conform DIN 22568 HSS-G

- *filiera pentru filet BSW (Britisch Standard Whitworth), similar DIN EN 22568, HSS-G*
- *material HSS; tratament termic integral*
- *parametri filet conform BS 84*
- *forma B, taiere pe dreapta*
- *unghiul flancurilor filetului 55°*

destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²



BOHRCRAFT | BSW | DIN EN 22568 | HSS G | FORM B | 55° | 800 N/mm²

	BSW filet	Pas (mm)	Diametru (mm)	AMB	
42051100018	W 1/8	40	3,09	1	**66.42**
42051100532	W 5/32	32	3,88	1	**66.42**
42051100316	W 3/16	24	4,46	1	**66.42**
42051100014	W 1/4	20	6,17	1	**66.42**
42051100516	W 5/16	18	7,76	1	**66.42**
42051100038	W 3/8	16	9,30	1	**80.75**
42051100716	W 7/16	14	10,90	1	**80.75**
42051100012	W 1/2	12	12,44	1	**89.07**
42051100916	W 9/16	12	14,02	1	**117.73**
42051100058	W 5/8	11	15,62	1	**163.19**
42051100034	W 3/4	10	18,76	1	**163.19**
42051100078	W 7/8	9	21,90	1	**257.96**
42051100100	W 1	8	25,08	1	**257.96**

4104

Tarozi pentru filetare manuala, filet UNC, similar DIN 352, HSS-G, 3 buc/set

- *tarozi pentru filetare manuala, filet UNC, similar DIN 352, HSS-G, 3 buc/set*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform ANSI B1.1*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*
- *conul de atac :*
- *Nr1., 6-8 spire*
- *Nr2., 4-5 spire*
- *Nr3., 2-3 spire*
- *pentru gauri strapunse sau infundate*



BOHRCRAFT | UNC | ~DIN 352 | HSS G | Tol. 2B | 60° | 800 N/mm²

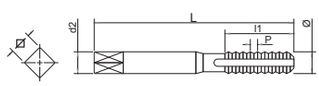
	UNC filet	Pas (mm)	Gaura (mm)	AMB	
41041100632	Nr. 6	32	2,85	1	**90.61**
41041100832	Nr. 8	32	3,50	1	**90.61**
41041101024	Nr. 10	24	3,90	1	**90.61**
41041101224	Nr. 12	24	4,50	1	**93.08**
41041100014	1/4"	20	5,20	1	**68.57**
41041100516	5/16"	18	6,60	1	**74.58**
41041100038	3/8"	16	8,00	1	**84.60**
41041100716	7/16"	14	9,40	1	**105.71**
41041100012	1/2"	13	10,80	1	**143.62**
41041100916	9/16"	12	12,20	1	**165.19**
41041100058	5/8"	11	13,50	1	**216.05**
41041100034	3/4"	10	16,50	1	**262.43**
41041100078	7/8"	9	19,50	1	**372.46**
41041100100	1"	8	22,25	1	**474.01**

9521011

Tarozi pentru filetare manuala, filet UNC, similar DIN 352, HSS-G, 3 buc/set

- *tarozi pentru filetare manuala, filet UNC, similar DIN 352, HSS-G, 3 buc/set*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform ANSI B1.1*
- *toleranta 6H*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate, aliate si pentru tratament termic cu σr ≤ 950 N / mm²*
- *pentru gauri strapunse*





TIVOLY

HSS | BRIGHT UNCOATED | DIN 352 | x3 SET | 6H | UNC

	Ø	P	L	l	d2	
952101100002560	N°2	56	36	10	2,8	**245.56**
952101100003480	N°3	48	40	11	3,5	**240.76**
952101100004400	N°4	40	40	11	3,5	**209.97**
952101100005400	N°5	40	40	11	3,5	**200.80**
952101100006320	N°6	32	45	13	4	**200.80**
952101100008320	N°8	32	45	13	4	**200.80**

	Ø	P	L	l	d2	
9952101100010240	N°10	24	350	16	2,6	**196.81**
952101100012240	N°12	24	50	18	6	**196.81**
952101100140200	1/4"	20	56	22	6	**167.09**
952101100516180	5/16"	18	63	25	6	**193.30**
952101100380160	3/8"	16	70	28	7	**218.00**
952101100716140	7/16"	14	75	30	8	**283.86**
952101100120130	1/2"	13	80	32	9	**326.73**
952101100916120	9/16"	12	80	32	12	**378.19**
952101100580110	5/8"	11	90	36	12	**526.72**
952101100340100	3/4"	10	105	40	14	**710.10**
952101100780090	7/8"	9	110	45	18	**874.71**
952101110000080	1"	8	110	50	20	**1,181.22**

4206

Filiera pentru filet UNC, similar DIN 22568 HSS-G

- *filiera pentru filet UNC, similar DIN EN 22568, HSS-G*
- *material HSS; tratament termic integral*
- *parametri filet conform ANSI B1.1*
- *forma B, taiere pe dreapta, toleranta 2A*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*



BOHRCRAFT

UNC | DIN EN 22568 | HSS G | FORM B | Tol. 2A | 60° | 800 N/mm²

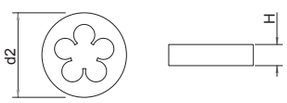
	UNC filet	Pas (mm)	Diametru (mm)	AMB	
42061100632	Nr. 6	32	3,41	1	**70.58**
42061100832	Nr. 8	32	4,07	1	**70.58**
42061101024	Nr. 10	24	4,71	1	**70.58**
42061101224	Nr. 12	24	5,37	1	**70.58**
42061100014	1/4"	20	6,22	1	**58.40**
42061100516	5/16"	18	7,80	1	**70.58**
42061100038	3/8"	16	9,37	1	**75.05**
42061100716	7/16"	14	10,95	1	**81.21**
42061100012	1/2"	13	12,52	1	**96.77**
42061100916	9/16"	12	14,10	1	**112.95**
42061100058	5/8"	11	15,68	1	**159.65**
42061100034	3/4"	10	18,84	1	**159.65**
42061100078	7/8"	9	22,00	1	**257.96**
42061100100	1"	8	25,16	1	**257.96**

1100471

Filiera pentru filet UNC, similar DIN 22568 HSS-G

- *filiera pentru filet UNC, similar DIN EN 22568, HSS-G*
- *material HSS; tratament termic integral*
- *parametri filet conform ANSI B1.1*
- *forma B, taiere pe dreapta, toleranta 2A*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 700 N / mm², aliaje de aluminiu*





TIVOLY

HSS | BRIGHT UNCOATED | EN 22568 | 20-45 | GUN B FORM | UNC

	Ø	P	L	l	
11004710005	UNC5	40	5	20	**138.50**
11004710006	UNC6	32	5	20	**133.00**
11004710008	UNC8	32	5	20	**131.06**
11004710010	UNC10	24	7	20	**136.56**
11004710012	UNC12	24	7	20	**138.50**

	Ø	P	L	l	
11004710104	UNC1/4	20	7	20	**136.56**
11004710516	UNC5/16	18	9	25	**146.76**
11004710308	UNC3/8	16	11	30	**184.29**
11004710716	UNC7/16	14	11	30	**184.29**
11004710102	UNC1/2	13	14	38	**210.78**
11004710304	UNC3/4	10	18	45	**300.68**

4105

Tarozi pentru filetare manuala, filet UNF, similar DIN 2181, HSS-G, 2 buc/set

- *tarozi pentru filetare manuala, filet UNF, similar DIN 2181, HSS-G, 2 buc/set*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform ANSI B1.1*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*
- *conul de atac :*
- *Nr1., 5-6 spire*
- *Nr2., 2-3 spire*
- *pentru gauri strapunse sau infundate*



BOHRCRAFT

UNF | ~DIN 2181 | HSS G | Tol. 2B | 60° | 800 N/mm²

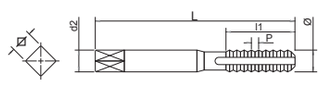
	UNF filet	Pas (mm)	Gaura (mm)	AMB	
41051100640	Nr. 6	40	3,00	1	**65.03**
41051100836	Nr. 8	36	3,50	1	**65.03**
41051101032	Nr. 10	32	4,10	1	**65.03**
41051101228	Nr. 12	28	4,70	1	**65.03**
41051100014	1/4"	28	5,50	1	**57.48**
41051100516	5/16"	24	6,90	1	**63.64**
41051100038	3/8"	24	8,50	1	**68.57**
41051100716	7/16"	20	9,90	1	**79.67**
41051100012	1/2"	20	11,50	1	**95.70**
41051100916	9/16"	18	12,90	1	**117.73**
41051100058	5/8"	18	14,50	1	**145.93**
41051100034	3/4"	16	17,50	1	**174.90**
41051100078	7/8"	14	20,25	1	**248.25**
41051100100	1"	12	23,25	1	**316.06**

9521021

Tarozi pentru gauri strapunse DIN 2181 UNF, HSS, set 2

- *tarozi pentru filetare manuala, filet UNF, similar DIN 2181, HSS-G, 2 buc/set*
- *material: HSS, profil filet rectificat detalonat*
- *parametri filet conform ANSI B1.1*
- *toleranta 6H*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate, aliate si pentru tratament termic cu σr ≤ 950 N / mm²*
- *pentru gauri strapunse*





TIVOLY

HSS | BRIGHT UNCOATED | DIN 2181 | X2 SET | 6H | UNF

	Ø	P	L	l	d2	
952102100003560	N°3	56	40	11	3,5	**226.42**
952102100004480	N°4	48	40	11	3,5	**156.41**
952102100005440	N°5	44	40	11	3,5	**156.41**
952102100006400	N°6	40	45	13	4	**149.40**
952102100008360	N°8	36	45	13	4	**149.40**

	Ø	P	L	l	d2	
952102100010320	N°10	32	50	16	6	**150.91**
952102100012280	N°12	28	50	18	6	**156.41**
952102100140280	1/4"	28	56	22	6	**112.99**
952102100516240	5/16"	24	63	25	6	**123.51**
952102100380240	3/8"	24	70	25	7	**139.80**
952102100716200	7/16"	20	75	30	8	**185.64**
952102100120200	1/2"	20	80	32	9	**189.74**
952102100916180	9/16"	18	90	32	12	**247.34**
952102100580180	5/8"	18	90	32	12	**319.40**
952102100340160	3/4"	16	105	35	14	**429.16**
952102100780140	7/8"	14	110	35	18	**551.37**
952102110000120	1"	12	110	35	20	**724.02**

4207

Filiera pentru filet UNF, conform DIN 22568 HSS-G

- *filiera pentru filet UNF, similar DIN EN 22568, HSS-G*
- *material HSS; tratament termic integral*
- *parametri filet conform ANSI B1.1*
- *forma B, taiere pe dreapta, toleranta 2A*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*



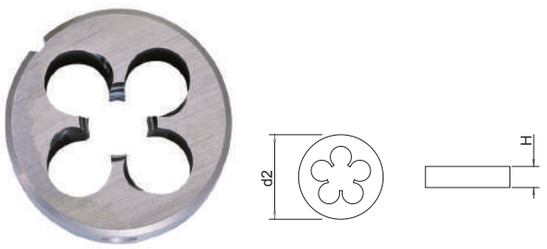
BOHRCRAFT | UNF | DIN EN 22568 | HSS G | FORM B | Tol. 2A | 60° | 800 N/mm²

	UNF filet	Pas (mm)	Diametru (mm)	AMB	
42071100640	Nr. 6	40	3,42	1	**70.58**
42071100836	Nr. 8	36	4,08	1	**70.58**
42071101032	Nr. 10	32	4,73	1	**70.58**
42071101228	Nr. 12	28	5,38	1	**70.58**
42071100014	1/4"	28	6,24	1	**70.58**
42071100516	5/16"	24	7,82	1	**70.58**
42071100038	3/8"	24	9,41	1	**82.13**
42071100716	7/16"	20	10,98	1	**82.13**
42071100012	1/2"	20	12,56	1	**106.17**
42071100916	9/16"	18	14,14	1	**112.95**
42071100058	5/8"	18	15,73	1	**159.65**
42071100034	3/4"	16	18,89	1	**159.65**
42071100078	7/8"	14	22,05	1	**257.96**
42071100100	1"	12	25,21	1	**257.96**

1100481

Filiera pentru filet UNF, conform DIN 22568 HSS-G

- *filiera pentru filet UNF, similar DIN EN 22568, HSS-G*
- *material HSS; tratament termic integral*
- *parametri filet conform ANSI B1.1*
- *forma B, taiere pe dreapta, toleranta 2A*
- *unghiul flancurilor filetului 60°*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 700 N / mm², aliaje de aluminiu*



TIVOLY | HSS | BRIGHT UNCOATED | EN 22568 | 20-45 | GUN B FORM | UNF

	Ø	P	L	l	
11004810005	UNF5	44	5	20	**138.50**
11004810006	UNF6	40	5	20	**133.00**
11004810008	UNF8	36	5	20	**133.00**
11004810010	UNF10	32	7	20	**136.56**
11004810012	UNF12	28	7	20	**138.50**
11004810104	UNF1/4	28	7	20	**136.56**
11004810516	UNF5/16	24	9	25	**146.76**
11004810308	UNF3/8	24	11	30	**184.29**
11004810716	UNF7/16	20	11	30	**184.29**
11004810102	UNF1/2	20	10	38	**210.78**
11004810304	UNF3/4	16	11	45	**300.68**

4140

Tarozi lungi de masina DIN 371, HSS-G, pentru gauri strapunse

- *tarozi lungi de masina DIN 371, HSS-G, pentru gauri strapunse*
- *material: HSS, tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma B, taiere pe dreapta*
- *conul de atac : 4-5 spire*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*



BOHRCRAFT | M | DIN 371/376 | HSS G | ISO2 6H | 60° | 800 N/mm² | FORM B

	M filet	Pas (mm)	Gaura (mm)	AMB	
41400300300	M 3	0,50	2,50	1	**30.51**
41400300400	M 4	0,70	3,30	1	**30.51**
41400300500	M 5	0,80	4,20	1	**32.82**
41400300600	M 6	1,00	5,00	1	**32.82**
41400300800	M 8	1,25	6,80	1	**41.14**
41400301000	M 10	1,50	8,50	1	**46.85**

4141

Tarozi lungi de masina DIN 376, HSS-G, pentru gauri strapunse

- *tarozi lungi de masina DIN 376, HSS-G, pentru gauri strapunse*
- *material: HSS, tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma B, taiere pe dreapta*
- *conul de atac : 4-5 spire*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*



BOHRCRAFT | M | DIN 371/376 | HSS G | ISO2 6H | 60° | 800 N/mm² | FORM B

	M filet	Pas (mm)	Gaura (mm)	AMB	
41410301200	M 12	1,75	10,20	1	**58.87**
41410301400	M 14	2,00	12,00	1	**70.27**
41410301600	M 16	2,00	14,00	1	**81.83**
41410301800	M 18	2,50	15,50	1	**116.50**
41410302000	M 20	2,50	17,50	1	**122.05**
41410302200	M 22	2,50	19,50	1	**163.19**
41410302400	M 24	3,00	21,00	1	**178.45**

4150

Tarozi lungi de masina DIN 371, HSS-G, pentru gauri infundate si strapunse

- *tarozi lungi de masina DIN 371, HSS-G, pentru gauri infundate si strapunse*
- *material: HSS, tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma C, canale elicoidale RSP / 35º, taiere pe dreapta*
- *conul de atac : 2-3 spire*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*



BOHRCRAFT

M | DIN 371/376 | HSS G | ISO2 6H | 60° | 800 N/mm² | FORM C | RSP 35°

	M filet	Pas (mm)	Gaura (mm)	AMB	
41500300300	M 3	0,50	2,50	1	**36.06**
41500300400	M 4	0,70	3,30	1	**36.06**
41500300500	M 5	0,80	4,20	1	**37.29**
41500300600	M 6	1,00	5,00	1	**38.52**
41500300800	M 8	1,25	6,80	1	**46.85**
41500301000	M 10	1,50	8,50	1	**54.70**

4151

Tarozi lungi de masina DIN 376, HSS-G, pentru gauri strapunse si infundate

- *tarozi lungi de masina DIN 376, HSS-G, pentru gauri strapunse si infundate*
- *material: HSS, tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma C, canale elicoidale RSP / 35º, taiere pe dreapta*
- *conul de atac : 2-3 spire*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*



BOHRCRAFT

M | DIN 371/376 | HSS G | ISO2 6H | 60° | 800 N/mm² | FORM C | RSP 35°

	M filet	Pas (mm)	Gaura (mm)	AMB	
41510301200	M 12	1,75	10,20	1	**70.27**
41510301400	M 14	2,00	12,00	1	**83.83**
41510301600	M 16	2,00	14,00	1	**98.16**
41510301800	M 18	2,50	15,50	1	**134.07**
41510302000	M 20	2,50	17,50	1	**141.92**
41510302200	M 22	2,50	19,50	1	**174.13**
41510302400	M 24	3,00	21,00	1	**209.88**

4142

Tarozi lungi de masina DIN 371, HSS-E (Co 5%), pentru gauri strapunse

- *tarozi lungi de masina DIN 371, HSS-E (Co 5%), pentru gauri strapunse*
- *material: HSS-E (Co 5%), tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma B, taiere pe dreapta*
- *conul de atac : 4-5 spire*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 900 N / mm²*



BOHRCRAFT

M | DIN 371/376 | HSS-E Co5 | ISO2 6H | 60° | 900 N/mm² | FORM B

	M filet	Pas (mm)	Gaura (mm)	AMB	
41420300200	M 2	0,40	1,60	1	**48.23**
41420300250	M 2,5	0,45	2,05	1	**38.99**
41420300300	M 3	0,50	2,50	1	**38.22**
41420300400	M 4	0,70	3,30	1	**38.22**
41420300500	M 5	0,80	4,20	1	**41.30**
41420300600	M 6	1,00	5,00	1	**41.30**
41420300800	M 8	1,25	6,80	1	**51.16**
41420301000	M 10	1,50	8,50	1	**63.33**

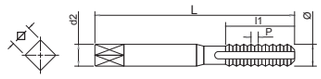
9602011

Tarozi lungi de masina, pas normal / fin, DIN 371, HSS-E (Co 5%), pentru gauri strapunse

- *tarozi lungi de masina, pas normal / fin, DIN 371,*
- *material: HSS-E (Co 5%), tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *toleranta 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma C, taiere pe dreapta*
- *pentru gauri strapunse*
- *destinate pentru filetare in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 700 N / mm²*



TIVOLY



HSS E | BRIGHT UNCOATED | DIN 371 | C FORM | 6H | M MF

	Ø	P	L	l	d2	
960201100200040	M2	0,4	45	8	2,8	**77.94**
960201100250045	M2,5	0,45	50	9	2,8	**79.28**
960201100260045	M2,6	0,45	50	9	2,8	**79.28**
960201100300050	M3	0,5	56	10	3,5	**59.33**
960201100350060	M3,5	0,6	56	11	4	**71.30**
960201100400070	M4	0,7	63	12	4,5	**60.35**
960201100500080	M5	0,8	70	14	6	**60.35**
960201100600100	M6	1,0	80	16	6	**68.66**
960201100800125	M8	1,25	90	18	8	**77.07**
960201101000150	M10	1,5	100	20	10	**88.07**
960201100400050	MF4	0,5	63	10	4,5	**112.94**
960201100500050	MF5	0,5	70	11	6	**114.13**
960201100700075	MF7	0,75	80	16	7	**119.73**
960201100800075	MF8	0,75	90	18	8	**111.70**
960201100800100	MF8	1,0	90	18	8	**92.98**
960201101000100	MF10	1,25	100	20	10	**101.02**
960201101000125	MF10	1,25	100	20	10	**118.01**

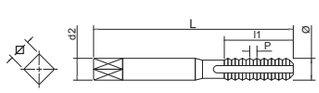
960ST21

Tarozi lungi de masina, pas normal / fin, DIN 371/376/374, HSS-E (Co 5%), Forma B, TiN

- *tarozi lungi de masina, pas normal / fin, DIN 371/376/374,*
- *material: HSS-E (Co 5%), tratament termic, acoperire TiN,*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *toleranta 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma B, taiere pe dreapta*
- *pentru gauri strapunse*
- *destinate pentru filetare in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 1400 N / mm²*



TIVOLY



HSS E | TiN COATED | DIN 371/374 376 | GUN | GUN B FORM | 6H | M MF

	Ø	P	L	l	d2	DIN	
960ST2100300050	M3	0,5	56	10	3,5	371	**78.91**
960ST2100400070	M4	0,7	63	12	4,5	371	**80.52**
960ST2100500080	M5	0,8	70	14	6	371	**80.52**
960ST2100600100	M6	1,0	80	16	6	371	**86.94**
960ST2100800125	M8	1,25	90	18	8	371	**99.72**
960ST2101000150	M10	1,5	100	20	10	371	**126.31**
960ST2101200175	M12	1,75	110	22	9	376	**162.83**
960ST2101400200	M14	2,0	110	25	11	376	**200.15**
960ST2101600200	M16	2,0	110	28	12	376	**232.46**
960ST2100800100	MF8	1,0	90	18	8	371	**111.81**
960ST2101000100	MF10	1,0	90	18	10	371	**141.47**
960ST2101200150	MF12	1,5	100	22	9	374	**174.32**
960ST2101400150	MF14	1,5	100	22	11	374	**214.34**

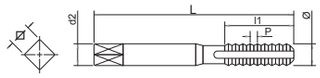
9603011

Tarozi lungi de masina, pas normal / fin, DIN 374/376, HSS-E (Co 5%), Forma C

- *tarozi lungi de masina, pas normal / fin, DIN 374/376,*
- *material: HSS-E (Co 5%), tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *toleranta 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma C, taiere pe dreapta*
- *pentru gauri strapunse*
- *destinate pentru filetare in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 700 N / mm²*



TIVOLY



HSS E | BRIGHT UNCOATED | DIN 374/376 | C FORM | 6H | M MF

	Ø	P	L	l	d2	DIN	
960301100300050	M3	0,4	45	8	2,2	376	**60.68**
960301100400070	M4	0,7	63	12	2,8	376	**61.86**
960301100500080	M5	0,8	70	14	3,5	376	**61.86**
960301100600100	M6	1,0	80	16	4,5	376	**71.25**
960301100800125	M8	1,25	90	18	6	376	**80.09**
960301101000150	M10	1,5	100	20	7	376	**91.26**
960301101200175	M12	1,75	110	22	9	376	**113.80**
960301101400200	M14	2,0	10	25	11	376	**146.76**
960301101600200	M16	2,0	110	28	12	376	**176.10**
960301102000250	M20	2,5	140	32	16	376	**269.46**
960301102400300	M24	3,0	160	32	18	376	**390.54**
960301103000350	M30	3,5	180	40	22	376	**624.61**
960301103300350	M33	3,5	180	40	25	376	**743.27**
960301103600400	M36	4,0	200	45	28	376	**948.01**
960301103900400	M39	4,0	200	45	32	376	**1,212.99**
960301104200450	M42	4,5	200	50	32	376	**1,575.42**
960301104500450	M45	4,5	220	50	36	376	**1,703.79**
960301104800500	M48	5,0	250	56	36	376	**2,095.14**
960301100600075	MF6	0,75	80	12	4,5	376	**93.79**
960301100800100	MF8	1,0	90	18	8	374	**96.38**
960301101000100	MF10	1,0	90	18	7	374/376	**106.84**
960301101000125	MF10	1,25	100	20	7	374/376	**141.09**
960301101200100	MF12	1,25	100	22	9	374/376	**141.09**
960301101200125	MF12	1,5	100	22	9	374/376	**139.85**
960301101200150	MF12	1,5	100	22	9	374/376	**127.72**
960301101300100	MF13	1,0	100	22	9	374/376	**249.55**
960301101400100	MF14	1,0	100	22	11	374/376	**212.50**
960301101400150	MF14	1,5	100	22	11	374/376	**150.69**
960301101500100	MF15	1,0	100	22	11	374/376	**280.46**
960301101600100	MF16	1,0	100	22	12	374/376	**269.46**
960301101600125	MF16	1,25	100	22	12	374/376	**294.16**
960301101600150	MF16	1,5	110	22	12	374/376	**188.50**
960301101800150	MF18	1,5	110	22	12	374/376	**235.80**
960301102000100	MF20	1,0	125	25	14	374/376	**394.53**
960301102000150	MF20	1,0	125	25	16	374/376	**266.81**
960301102200100	MF22	1,0	125	25	18	374/376	**459.90**
960301102200150	MF22	1,5	125	25	18	374/376	**321.50**
960301102400200	MF24	2,0	140	25	18	374/376	**504.18**
960301102500150	MF25	1,5	140	25	18	374/376	**614.85**
960301102700200	MF27	2,0	140	25	18	374/376	**692.41**
960301103000200	MF30	2,0	150	32	22	374/376	**750.77**
960301103200150	MF32	1,5	150	28	28	374/376	**767.33**
960301103600150	MF36	1,5	170	32	28	374/376	**998.97**
960301104000150	MF40	1,5	170	32	32	374/376	**1,339.57**

4143

Tarozi lungi de masina DIN 376, HSS-E (Co 5%), pentru gauri strapunse

- *tarozi lungi de masina DIN 376, HSS-E (Co 5%), pentru gauri strapunse*
- *material: HSS-E (Co 5%), tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma B, taiere pe dreapta*
- *conul de atac : 4-5 spire*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 900 N / mm²*



BOHRCRAFT

M | DIN 371/376 | HSS-E Co5 | ISO2 6H | 60° | 900 N/mm² | FORM B

	M filet	Pas (mm)	Gaura (mm)	AMB	
41430300300	M 3	0,50	2,50	1	**39.14**
41430300400	M 4	0,70	3,30	1	**40.07**
41430300500	M 5	0,80	4,20	1	**40.07**
41430300600	M 6	1,00	5,00	1	**41.61**
41430300800	M 8	1,25	6,80	1	**58.71**
41430301000	M 10	1,50	8,50	1	**72.73**
41430301200	M 12	1,75	10,20	1	**73.50**
41430301400	M 14	2,00	12,00	1	**100.78**
41430301600	M 16	2,00	14,00	1	**123.43**
41430301800	M 18	2,50	15,50	1	**156.87**
41430302000	M 20	2,50	17,50	1	**214.35**
41430302200	M 22	2,50	19,50	1	**263.51**
41430302400	M 24	3,00	21,00	1	**312.82**

4152

Tarozi lungi de masina DIN 371, HSS-E (Co 5%), pentru gauri infundate si strapunse

- *tarozi lungi de masina DIN 371, HSS-E (Co 5%), gauri infundate si strapunse*
- *material: HSS-E (Co 5%), tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma C, canale elicoidale RSP / 35º, taiere pe dreapta*
- *conul de atac : 2-3 spire*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 900 N / mm²*



BOHRCRAFT

M | DIN 371/376 | HSS-E Co5 | ISO2 6H | 60° | 900 N/mm² | FORM C | RSP 35°

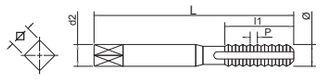
	M filet	Pas (mm)	Gaura (mm)	AMB	
41520300300	M 3	0,50	2,50	1	**45.00**
41520300400	M 4	0,70	3,30	1	**45.00**
41520300500	M 5	0,80	4,20	1	**46.54**
41520300600	M 6	1,00	5,00	1	**48.08**
41520300800	M 8	1,25	6,80	1	**59.33**
41520301000	M 10	1,50	8,50	1	**72.43**

9602031

Tarozi lungi de masina, pas normal/fin, DIN 371, HSS-E (Co 5%), Forma C

- *tarozi lungi de masina, pas normal/fin, DIN 371,*
- *material: HSS-E (Co 5%), tratament termic,*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *toleranta 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma C, unghiul spirei 15°, taiere pe dreapta*
- *pentru gauri infundate*
- *destinate pentru filetare in oteluri ne aliate si aliate pentru tratament termic,*
- *cu σr ≤ 1400 N / mm²*





TIVOLY

HSS E | BRIGHT UNCOATED | DIN 371 | C FORM | 15° | 6H | M MF

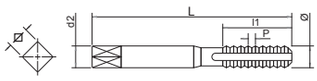
	Ø	P	L	l	d2	
960203100200040	M2	0,4	45	8	2,1	**95.84**
960203100300050	M3	0,5	56	10	3,5	**79.01**
960203100400070	M4	0,7	63	12	4,5	**79.07**
960203100500080	M5	0,8	70	14	6	**75.94**
960203100600100	M6	1,0	80	16	6	**83.38**
960203100700100	M7	1,0	80	16	7	**100.80**
960203100800125	M8	1,25	90	18	8	**99.35**
960203100900125	M9	1,25	90	18	9	**141.96**
960203101000150	M10	1,5	100	20	10	**118.06**
960203100500075	MF5	0,75	70	12	6	**129.07**
960203100800100	MF8	1,0	90	18	8	**121.95**

960ST51

Tarozi lungi de masina, pas normal / fin, DIN 371/376/374, HSS-E (Co 5%), Forma C, TiN

- *tarozi lungi de masina, pas normal / fin, DIN 371/376/374,*
- *material: HSS-E (Co 5%), tratament termic, acoperire TiN,*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *toleranta 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma C, unghiul spirei 35°, taiere pe dreapta*
- *pentru gauri infundate*
- *destinate pentru filetare in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 1400 N / mm²*





TIVOLY

HSS E | TiN COATED | DIN 371/374 376 | C FORM | 35° | 6H | M MF

	Ø	P	L	l	d2	DIN	
960ST5100300050	M3	0,5	56	5	3,5	371	**91.04**
960ST5100400070	M4	0,7	63	7	4,5	371	**91.15**
960ST5100500080	M5	0,8	70	9	6	371	**87.86**
960ST5100600100	M6	1,0	80	10	6	371	**95.36**
960ST5100800125	M8	1,25	90	12	8	371	**114.66**
960ST5101000150	M10	1,5	100	14	10	371	**132.36**
960ST5101200175	M12	1,75	110	16	9	376	**188.55**
960ST5101400200	M14	2,0	110	18	11	376	**227.66**
960ST5101600200	M16	2,0	110	18	12	376	**272.64**
960ST5100800100	MF8	1,0	90	12	8	371	**128.53**
960ST5101000100	MF10	1,0	90	14	10	371	**148.27**
960ST5101200150	MF12	1,5	100	14	9	374	**201.98**
960ST5101400150	MF14	1,5	100	18	11	374	**244.00**

4153

Tarozi lungi de masina DIN 376, HSS-E (Co 5%), pentru gauri infundate si strapunse

- *tarozi lungi de masina DIN 376, HSS-E (Co 5%), gauri infundate si strapunse*
- *material: HSS-E (Co 5%), tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma C, canale elicoidale RSP / 35°, taiere pe dreapta*
- *conul de atac : 2-3 spire*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 900 N / mm²*



BOHRCRAFT

M | DIN 371/376 | HSS-E Co5 | ISO2 6H | 60° | 900 N/mm² | FORM C | RSP 35°

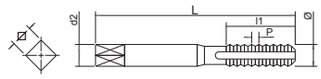
	M filet	Pas (mm)	Gaura (mm)	AMB	
41530300300	M 3	0,50	2,50	1	**48.85**
41530300400	M 4	0,70	3,30	1	**48.85**
41530300500	M 5	0,80	4,20	1	**51.62**
41530300600	M 6	1,00	5,00	1	**51.62**
41530300800	M 8	1,25	6,80	1	**64.10**
41530301000	M 10	1,50	8,50	1	**80.44**
41530301200	M 12	1,75	10,20	1	**87.84**
41530301400	M 14	2,00	12,00	1	**112.49**
41530301600	M 16	2,00	14,00	1	**137.46**
41530301800	M 18	2,50	15,00	1	**181.68**
41530302000	M 20	2,50	17,50	1	**223.44**
41530302200	M 22	2,50	19,50	1	**290.63**
41530302400	M 24	3,00	21,00	1	**310.66**

9603031

Tarozi lungi de masina, pas normal/fin, DIN 376/374, HSS-E (Co 5%), Forma C

- *tarozi lungi de masina, pas normal/fin, DIN 376/374,*
- *material: HSS-E (Co 5%), tratament termic,*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *toleranta 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma C, unghiul spirei 15°, taiere pe dreapta*
- *pentru gauri infundate*
- *destinate pentru filetare in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 1400 N / mm²*





TIVOLY

HSS E | BRIGHT UNCOATED | DIN 374/376 | C FORM | 15° | 6H | M MF

	Ø	P	L	l	d2	DIN	
960303100400070	M4	0,7	63	12	2,8	376	**81.82**
960303100500080	M5	0,8	70	14	3,5	376	**81.82**
960303100600100	M6	1,0	80	16	4,5	376	**85.86**
960303100800125	M8	1,25	90	18	6	376	**103.77**
960303101000150	M10	1,5	100	20	7	376	**121.35**
960303101200100	M12	1,75	110	22	9	376	**156.46**
960303101400200	M14	2,0	110	25	11	376	**190.87**
960303101600200	M16	2,0	110	28	12	376	**230.84**
960303101800250	M18	2,5	125	32	14	376	**310.72**
960303102000250	M20	2,5	140	32	16	376	**331.53**
960303102200250	M22	2,5	140	32	18	376	**407.58**
960303102400300	M24	3,0	160	32	18	376	**495.23**
960303102700300	M27	3,0	160	36	20	376	**609.51**
960303103000350	M30	3,5	180	40	22	376	**781.08**
960303100800100	MF8	1,0	90	18	6	374	**125.40**

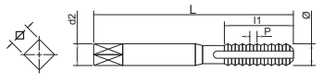
	Ø	P	L	l	d2	DIN	
960303101000100	MF10	1,0	90	18	7	374	**147.89**
960303101000125	MF10	1,25	100	20	7	374	**160.94**
960303101200175	MF12	1,0	100	22	9	374	**183.75**
960303101200125	MF12	1,25	100	22	9	374	**176.10**
960303101200150	MF12	1,5	100	22	9	374	**169.30**
960303101400100	MF14	1,0	100	22	11	374	**283.70**
960303101400125	MF14	1,25	100	22	11	374	**259.96**
960303101400150	MF14	1,5	100	22	11	374	**208.08**
960303101600150	MF16	1,5	110	22	12	374	**255.65**
960303101800150	MF18	1,5	110	25	14	374	**308.77**
960303102000150	MF20	1,5	125	25	16	374	**352.79**
960303102200150	MF22	1,5	125	25	18	374	**368.16**
960303102400150	MF24	1,5	140	25	18	374	**517.34**
960303102400200	MF24	2,0	140	25	18	374	**631.63**
960303103000150	MF30	1,5	150	32	22	374	**795.32**

9622011

Tarozi de masina, filet UNC/UNF, similar DIN 371, HSS-E (Co 5%)

- *tarozi de masina, filet UNC/UNF, similar DIN 371,*
- *material: HSS-E (Co 5%), tratament termic,*
- *profil filet rectificat detalonat*
- *parametri filet conform ANSI B1.1*
- *toleranta 2B*
- *unghiul flancurilor filetului 60°*
- *forma C, canale drepte, taiere pe dreapta*
- *destinate pentru filetare in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 700 N / mm² si aliaje de aluminiu*
- *pentru gauri strapunse*





TIVOLY

HSS E | BRIGHT UNCOATED | DIN 371 | C FORM | 2B | UNC UNF

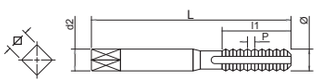
	Ø	P	L	l	d2	
962201100006320	UNC N°6	32	56	11	4	**90.50**
962201100008320	UNC N°8	32	63	12	4,5	**89.75**
962201100140200	UNC 1/4	20	80	16	7	**88.18**
962201100380160	UNC 3/8	16	90	18	9	**117.09**
962201100516180	UNC 5/16	18	90	18	8	**105.28**
962201100010320	UNF N°10	32	70	14	6	**104.79**
962201100140280	UNF 1/4	28	80	16	7	**93.04**
962201100380240	UNF 3/8	24	100	18	9	**118.76**

9623011

Tarozi de masina, filet UNF, similar DIN 376, HSS-E (Co 5%)

- *tarozi de masina, filet UNF, similar DIN 376,*
- *material: HSS-E (Co 5%), tratament termic,*
- *profil filet rectificat detalonat*
- *parametri filet conform ANSI B1.1*
- *toleranta 2B*
- *unghiul flancurilor filetului 60°*
- *forma C, canale dreprte, taiere pe dreapta*
- *destinate pentru filetare in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 700 N / mm² si aliaje de aluminiu*
- *pentru gauri strapunse*





TIVOLY

HSS E | BRIGHT UNCOATED | DIN 376 | C FORM | 2B | UNF

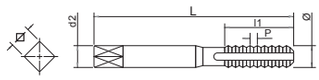
	Ø	P	L	l	d2	
962301100716200	UNF 7/16	20	100	22	8	**149.99**
962301100120200	UNF 1/2	20	110	25	9	**158.03**
962301100916180	UNF 9/16	18	110	25	11	**194.38**
962301100580180	UNF 5/8	18	110	25	12	**220.81**
962301100340160	UNF 3/4	16	125	32	14	**282.67**

962ST51

Tarozi de masina, filet UNC/UNF, similar DIN 371/376, HSS-E (Co 5%), TiN

- *tarozi de masina, filet UNC/UNF, similar DIN 371/376,*
- *material: HSS-E (Co 5%), tratament termic, acoperire TiN,*
- *profil filet rectificat detalonat*
- *parametri filet conform ANSI B1.1*
- *toleranta 2B*
- *unghiul flancurilor filetului 60°*
- *forma C, unghiul spirei 35°, taiere pe dreapta*
- *pentru filetare in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 1400 N / mm²*
- *pentru gauri infundate*





TIVOLY

HSS E | TiN COATED | DIN 371/376 | C FORM | 35° | 2B | UNC UNF

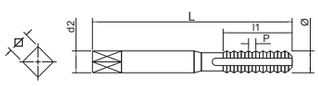
	Ø	P	L	l	d2	DIN	
962ST5100140200	UNC 1/4	20	80	12	7	371	**164.82**
962ST5100380160	UNC 3/8	16	90	14	9	371	**224.58**
962ST5100120130	UNC 1/2	13	110	16	9	376	**281.11**
962ST5100340100	UNC 3/4	10	125	25	14	376	**497.65**
962ST5110000080	UNC 1"	8	160	30	20	376	**927.40**
962ST5100140280	UNF 1/4	28	80	10	7	371	**167.47**
962ST5100380240	UNF 3/8	24	100	14	9	371	**239.41**
962ST5100120200	UNF 1/2	20	110	16	9	376	**319.40**
962ST5100340160	UNF 3/4	16	125	18	14	376	**558.44**
962ST5110000120	UNF 1"	12	140	25	20	376	**1,096.27**

9633011

Tarozi de masina, filet GAZ (BSP), DIN 5156 HSS-E (Co 5%), Forma C

- *tarozi de masina, filet GAZ (BSP, British Standard Pipe), DIN 5156*
- *material: HSS-E (Co 5%), tratament termic,*
- *profil filet rectificat detalonat*
- *unghiul flancurilor filetului 55°*
- *forma C, canale drepte*
- *destinate pentru filetare in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 900 N / mm², aliaje de aluminiu*
- *pentru gauri strapunse*





TIVOLY

HSS E | BRIGHT UNCOATED | DIN 5156 | C FORM | BSP G

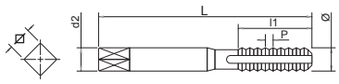
	Ø	P	L	l	d2	
963301100180280	G1/8	28	90	18	7	**113.05**
963301100140190	G1/4	19	100	22	11	**167.52**
963301100380190	G3/8	19	100	25	12	**200.58**
963301100120140	G1/2	14	125	25	16	**253.49**
963301100340140	G3/4	14	140	28	20	**396.80**
963301110000110	G1"	11	160	36	25	**615.61**
963301110140110	G1"1/4	11	170	40	32	**1,103.61**

9643011

Tarozi scurti de masina, pentru filet NPT, similar DIN 5156 HSS-G

- *tarozi scurti de masina, pentru filet conic NPT, similar DIN 5156 HSS-G*
- *material: HSS, tratament termic,*
- *profil filet rectificat detalonat*
- *unghiul flancurilor filetului 55°*
- *conicitate 1 : 16*
- *forma C, canale drepte*
- *destinate pentru filetare in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 1400 N / mm², aliaje de aluminiu*
- *pentru gauri strapunse*





TIVOLY

HSS | BRIGHT UNCOATED | simDIN 5156 | C FORM | 116 | NPT

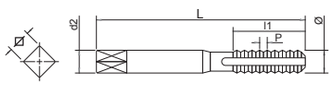
	Ø	P	L	l	d2	
964301100116270	NPT 1/16	27	90	16	6	**209.21**
964301100180270	NPT 1/8	27	90	21	8	**209.21**
964301100140180	NPT 1/4	18	100	28	11	**293.19**
964301100380180	NPT 3/8	18	110	28	14	**405.10**
964301100120140	NPT 1/2	14	140	35	18	**566.26**
964301100340140	NPT 3/4	14	140	35	22	**865.81**
964301110000115	NPT 1"	11,5	160	45	25	**972.82**
964301110140115	NPT 1"1/4	11,5	170	45	32	**1,565.23**

9704601

Tarozi extralungi de masina, filet Metric, NFE 66112 similar DIN 357, forma A, HSS-E (Co 5%)

- *tarozi extralungi de masina (pentru piulite), filet Metric, DIN 357,*
- *material: HSS-E (Co 5%), tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *toleranta 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma A, taiere pe dreapta*
- *conul de atac : 6-8 spire*
- *pentru gauri strapunse*
- *pentru filetare in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 1400 N / mm²*





TIVOLY

HSS E | BRIGHT UNCOATED | NFE 66112 | A FORM | 6H | M

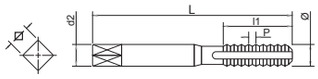
	Ø	P	L	l	d2	
970460100300050	M3	0,5	90	19	2,1	**585.62**
970460100400070	M4	0,7	100	20	2,9	**338.87**
970460100500080	M5	0,8	110	25	3,7	**382.61**
970460100600100	M6	1,0	120	27	4,5	**382.61**
970460100800125	M8	1,25	135	32	6,2	**509.25**
970460101000150	M10	1,5	150	38	7,6	**546.95**
970460101200175	M12	1,75	165	43	9	**581.41**
970460101400200	M14	2,0	180	50	10,5	**836.04**
970460101600200	M16	2,0	190	50	12,5	**836.04**

9704011

Tarozi extralungi de masina, filet metric, pas normal/fin, NFE 66101, forma A, HSS-E (Co 5%)

- *tarozi extralungi de masina (pentru piulite), filet metric, pas normal/fin, NFE 66101*
- *material: HSS-E (Co 5%), tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *toleranta 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma A, taiere pe dreapta*
- *pentru gauri strapunse*
- *pentru filetare in oteluri ne aliate si aliate pentru tratament termic, cu σr ≤ 1400 N / mm²*





TIVOLY

HSS E | STEAM TREATED | NFE 66101 | A FORM | 6H | L280 L420 L520 | M MF

	Ø	P	L	l	d2	
970401100300050	M3	0,5	280	12,5	2,3	**145.14**
970401100400070	M4	0,7	280	18	2,9	**145.14**
970401100500080	M5	0,8	280	20	3,8	**145.14**
970401100600100	M6	1,0	280	25	4,5	**145.14**
970401100700100	M7	1,0	280	25	5,5	**158.41**
970401100800125	M8	1,25	280	32	6,1	**151.77**
970401101000150	M10	1,5	280	38	7,7	**175.88**
970401101200175	M12	1,75	420	44	9,3	**271.94**
970401101400200	M14	2,0	420	50	10,9	**308.29**
970401101600200	M16	2,0	520	50	12,9	**372.58**
970401101800250	M18	2,5	520	63	14,1	**500.73**
970401102000250	M20	2,5	520	63	16,1	**617.76**
970401102200250	M22	2,5	520	63	18	**751.63**
970401102400300	M24	3,0	520	75	19,3	**987.38**
970401100600075	MF6	0,75	280	25	4,5	**173.08**
970401100800100	MF8	1,0	280	32	6,1	**161.91**
970401101000100	MF10	1,0	280	38	7,7	**188.99**
970401101200125	MF12	1,25	420	38	10,1	**188.99**
970401101200150	MF12	1,5	420	44	9,6	**288.33**
970401101400150	MF14	1,5	420	50	11,8	**321.99**
970401102000150	MF20	1,5	520	63	17,8	**651.26**
970401102200150	MF22	1,5	520	63	19,8	**788.14**
970401102400150	MF24	1,5	520	75	21,8	**1,375.65**

4160

Tarozi extralungi de masina (pentru piulite), filet Metric, DIN 357, HSS-G, gauri strapunse

- *tarozi extralungi de masina (pentru piulite), filet Metric, DIN 357, HSS-G, pentru gauri strapunse*
- *material: HSS, tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma A, taiere pe dreapta*
- *conul de atac : 4-5 spire*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 800 N / mm²*



BOHRCRAFT

M | DIN 357 | HSS G | ISO2 6H | 60° | 800 N/mm²

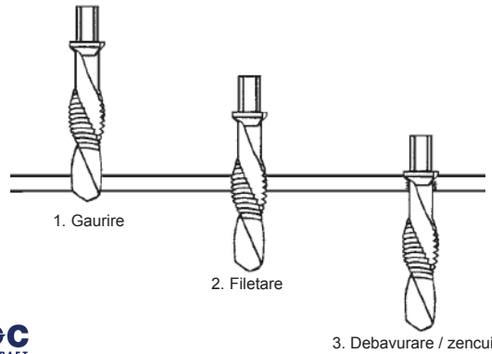
	M filet	Pas (mm)	Gaura (mm)	LT	LU	AMB	
41600300305	M 3	0,50	2,50	70	22	1	**65.65**
41600300407	M 4	0,70	3,30	90	25	1	**65.65**
41600300508	M 5	0,80	4,20	100	28	1	**69.65**
41600300610	M 6	1,00	5,00	110	32	1	**69.65**
41600300812	M 8	1,25	6,80	125	40	1	**75.51**
41600301015	M 10	1,50	8,50	140	45	1	**92.77**
41600301217	M 12	1,75	10,20	180	50	1	**125.44**

4171

Tarod combinat cu prindere hexagonala 1/4" HSS-G pas normal

- *tarod combinat cu prindere hexagonala 1/4" HSS-G pas normal*
- *material: HSS, tratament termic*
- *profil filet rectificat detalonat*
- *parametri filet conform DIN ISO 13*
- *tolerant 6H, conform ISO 2*
- *unghiul flancurilor filetului 60°*
- *forma A, taiere pe dreapta*
- *destinate pentru filetare in oteluri ne aliate si aliate, cu σr ≤ 600 N / mm²*
- *se utilizeaza pe masini portabile sau stationare de gaurit cu turatie reversibila, dreapta / stanga*





BOHRCRAFT

M | HSS G | ISO2 6H | 60° | SPLIT POINT | ¼" | 600 N/mm²

	M(filet)	Pas (mm)	Gaura (mm)	AMB	
41710300300	M 3	0,50	2,50	1	**46.54**
41710300400	M 4	0,70	3,30	1	**46.54**
41710300500	M 5	0,80	4,20	1	**46.54**
41710300600	M 6	1,00	5,00	1	**46.54**
41710300800	M 8	1,25	6,80	1	**64.10**
41710301000	M 10	1,50	8,50	1	**76.90**

4400

Port-filiera DIN 225

- *corp din zinc turnat sub presiune ; suruburi din otel, tratate*
- *manere din otel dintre care unul detasabil*



BOHRCRAFT

DIN 255

	DIM.	D x H	M – MF (dim. filiera)	G (dim. filiera)	AMB	
44001501605	0	16 x 5	M 1 - M 2,6	-	1	**18.95**
44001502005	1	20 x 5	M 3 - M 4	-	1	**19.88**
44001502007	2	20 x 7	M 4,5 - M 6	-	1	**19.88**
44001502509	3	25 x 9	M 7 - M 9	1/16	1	**23.73**
44001503011	4	30 x 11	M 10 - M 11	1/8	1	**33.29**
44001503810	5	38 x 10	MF 12 - MF 14	1/4	1	**52.86**
44001503814	5b	38 x 14	M 12 - M 14	-	1	**50.70**
44001504514	6	45 x 14	MF 16 - M 20	3/8 - 1/2	1	**67.50**
44001504518	6b	45 x 18	M 16 - M 20	-	1	**67.50**
44001505516	7	55 x 16	MF 22 - M 24	5/8 - 3/4	1	**86.91**
44001505522	7b	55 x 22	M 22 - M 24	-	1	**86.91**
44001506518	8	65 x 18	MF 27 - M 36	7/8 - 1	1	**158.72**
44001506525	8b	65 x 25	M 27 - M 36	-	1	**158.72**

1110051

Port filiera

- *corpul executat din otel*
- *coada cu patrat de antrenare*



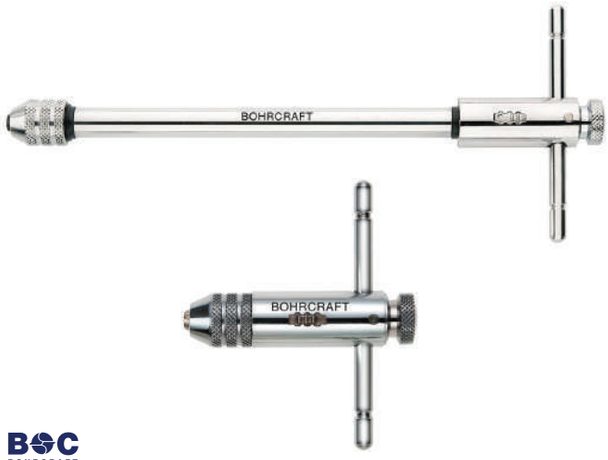
TIVOLY

	Ø	d2	
11100510254	25,4	8	**349.39**
11100510381	38,1	13	**665.66**

4302

Port-tarod cu clichet, varianta scurta si lunga

- *actionare stanga si dreapta*
- *mandrina cu doua bacuri pentru tarozi cu prindere patrata*



BOHRCRAFT

	DIM.	LT	Dim. tarod	AMB	
43021500001	1	85	M 3 - 10	1	**52.70**
43021500002	2	100	M 5 - 12	1	**63.95**
43021500010	10	250	M 3 - 10	1	**86.30**
43021500020	20	300	M 5 - 12	1	**104.94**

4300

Port-tarod reglabil DIN 1814

- *corp din zinc turnat sub presiune si falci din otel, tratate*
- *manere din otel dintre care unul detasabil*



BOHRCRAFT

DIN 1814

	DIM.	LT	M – MF tarod	Diam. tarod G	Patrat tarod	
43001500000	0	130	M 1 - 8	-	2,1 - 4,9	**23.73**
43001500010	1	180	M 1 - 10	-	2,4 - 5,5	**27.58**
43001500015	1.1/2	180	M 1 - 12	1/8	2,4 - 7,0	**28.35**
43001500020	2	280	M 4 - 12	1/8 - 3/8	3,4 - 8,0	**48.08**
43001500030	3	380	M 5 - 20	1/8 - 1/2	4,9 - 12,0	**79.98**
43001500040	4	500	M 11 - 27	1/8 - 3/4	5,5 - 16,0	**142.08**
43001500050	5	700	M 13 - 32	1/4 - 1	9,0 - 20,0	**221.13**

4500

Prelungitor pentru tarozi, conform DIN 377

- *prelungitor pentru tarozi, conformDIN 377*
- *executie din otel aliat, tratat termic integral*
- *suprafete rectificate*
- *pentru patrat de antrenare conform DIN 10*
- *patratul interior si in patratul exterior cu aceeasi dimensiune*



BOHRCRAFT

DIN 377

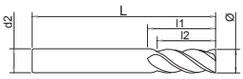
	DIM.	LT	M – MF (dim.tarod)	AMB	
45001500270	2,7	80	M 3	1	**20.65**
45001500340	3,4	95	M 4	1	**21.57**
45001500490	4,9	110	M 5 - M 8	1	**28.51**
45001500550	5,5	115	M 9 - M 10	1	**32.05**
45001500700	7,0	125	M 12	1	**37.91**
45001500900	9,0	135	M 14 - M 16	1	**48.85**
45001501100	11,0	150	M 18	1	**65.80**
45001501200	12,0	155	M 20	1	**74.43**
45001501450	14,5	174	M 22 - M 24	1	**104.32**

8236451

Freza cilindro frontala din carbura HM, DIN 6527K, Z2

- *material: carbura HM*
- *conform DIN 6527K*
- *varfuri de ascutire cu sanfren deprotectie*
- *pentru oteluri cu rezistenta la rupere σr ≤ 1200 N/mm², aliaje de aluminiu, otel inoxidabil, fonta*
- *unghiul spirei: 30°*
- *numar de dinti: Z2*
- *toleranta: e8*





TIVOLY

HM CARB | BRIGHT UNCOATED | DIN 6527K | Ch | Z2 | 30° | e8

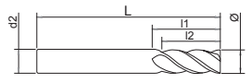
	Ø	d2	L	l2	
82364510100	1	3	38	3	**124.52**
82364510150	1.5	3	38	3	**117.63**
82364510200	2	3	38	3	**103.85**
82364510250	2.5	3	38	3	**117.63**
82364510300	3	3	38	4	**103.85**
82364510350	3.5	6	50	4	**124.52**
82364510400	4	6	54	5	**124.52**
82364510450	4.5	6	54	5	**147.04**
82364510500	5	6	54	6	**147.04**
82364510600	6	6	54	7	**173.24**
82364510700	7	8	58	8	**234.38**
82364510800	8	8	58	9	**261.87**
82364510900	9	10	66	10	**358.83**
82364511000	10	10	66	11	**358.83**
82364511200	12	12	73	12	**484.71**
82364511400	14	14	75	14	**623.58**
82364511600	16	16	82	16	**761.89**
82364511800	18	18	84	18	**1,137.38**
82364512000	20	20	92	20	**1,288.59**

8236511

Freza cilindro frontala lunga, din carbura HM, DIN 6527L, Z2

- *material: carbura HM*
- *conform DIN 6527L*
- *varfuri de ascutire cu sanfren de protectie*
- *pentru oteluri cu rezistenta la rupere σr ≤1200 N/mm², aliaje de aluminiu, otel inoxidabil, fonta*
- *unghiul spirei: 30°*
- *numar de dinti: Z2*
- *toleranta: e8*





TIVOLY

HM CARB | AlCrona COATED | DIN 6527L | Ch | Z2 | 30° | e8

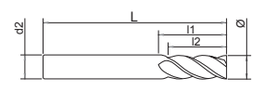
	Ø	d2	L	l2	
82365110200	2	3	38	6	**122.52**
82365110250	2.5	3	38	7	**138.79**
82365110300	3	3	38	7	**122.52**
82365110350	3.5	6	57	7	**146.96**
82365110400	4	6	57	8	**146.96**
82365110450	4.5	6	57	8	**173.56**
82365110500	5	6	57	10	**173.56**
82365110600	6	6	57	10	**204.41**
82365110700	7	8	63	13	**276.53**
82365110800	8	8	63	16	**308.99**
82365110900	9	10	72	16	**423.41**
82365111000	10	10	72	19	**423.41**
82365111200	12	12	83	22	**571.98**
82365111400	14	14	83	22	**735.84**
82365111600	16	16	92	26	**898.99**
82365111800	18	18	92	26	**1,342.12**
82365112000	20	20	104	32	**1,520.33**

8236481

Freza cilindro frontala din carbura HM, DIN 6527K, Z3

- *material: carbura HM*
- *conform DIN 6527K*
- *varfuri de ascutire cu sanfren de protectie*
- *pentru oteluri cu rezistenta la rupere σr ≤ 1200 N/mm², aliaje de aluminiu, otel inoxidabil, fonta*
- *unghiul spirei: 30°*
- *numar de dinti: Z3*
- *toleranta: e8*





TIVOLY

HM CARB | AlCrona COATED | DIN 6527K | Ch | Z3 | 30° | e8

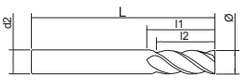
	Ø	d2	L	l2	
82364810100	1	3	38	3	**132.94**
82364810150	1.5	3	38	3	**141.11**
82364810200	2	3	38	3	**141.11**
82364810250	2.5	3	38	3	**141.11**
82364810300	3	3	38	4	**141.11**
82364810350	3.5	6	50	4	**160.02**
82364810400	4	6	54	5	**160.02**
82364810450	4.5	6	54	5	**176.45**
82364810500	5	6	54	6	**176.45**
82364810600	6	6	54	7	**214.51**
82364810700	7	8	58	8	**314.27**
82364810800	8	8	58	9	**314.27**
82364810900	9	10	66	10	**447.21**
82364811000	10	10	66	11	**447.21**
82364811200	12	12	73	12	**581.67**
82364811400	14	14	75	14	**781.44**
82364811600	16	16	82	16	**930.88**
82364811800	18	18	84	18	**1,412.79**
82364812000	20	20	92	20	**1,647.66**

8236531

Freza cilindro frontala lunga, din carbura HM, DIN 6527L, Z3

- *material: carbura HM*
- *conform DIN 6527L*
- *varfuri de ascutire cu sanfren de protectie*
- *pentru oteluri cu rezistenta la rupere σr ≤ 1200 N/mm², aliaje de aluminiu, otel inoxidabil, fonta*
- *unghiul spirei: 30º*
- *numar de dinti: Z3*
- *toleranta: e8*





TIVOLY

HM CARB | BRIGHT UNCOATED | DIN 6527L | Ch | Z3 | 30°

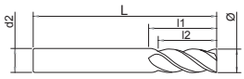
	Ø	d2	L	l2	
82365310200	2	3	38	6	138.79
82365310250	2.5	3	38	7	138.79
82365310300	3	3	38	7	138.79
82365310350	3.5	6	57	7	157.30
82365310400	4	6	57	8	157.30
82365310450	4.5	6	57	8	173.56
82365310500	5	6	57	10	173.56
82365310600	6	6	57	10	210.91
82365310700	7	8	63	13	308.99
82365310800	8	8	63	16	308.99
82365310900	9	10	72	16	439.76
82365311000	10	10	72	19	439.76
82365311200	12	12	83	22	571.98
82365311400	14	14	83	22	768.38
82365311600	16	16	92	26	915.26
82365311800	18	18	92	26	1,389.15
82365312000	20	20	104	32	1,620.17

8236061

Freza cilindro frontala cu cap semisferic, din carbura HM, Z2, norma TIVOLY

- *material: carbura HM*
- *cu cap rotund*
- *pentru oteluri cu rezistenta la rupere σr ≤ 1200 N/mm², aliaje de aluminiu, otel inoxidabil, fonta, titan*
- *unghiul spirei: 30º*
- *numar de dinti: Z2*
- *toleranta: e8*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | Z2 | 30° | e8

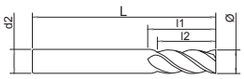
	Ø	d2	L	l2	
82360610100	1	3	39	3	141.67
82360610150	1,5	3	39	5	130.69
82360610200	2	3	39	7	130.69
82360610250	2,5	3	39	7	130.69
82360610300	3	3	39	9	130.69
82360610350	3,5	4	51	12	174.85
82360610400	4	4	51	14	174.85
82360610450	4,5	5	51	14	193.76
82360610500	5	5	51	16	193.76
82360610600	6	6	64	19	251.85
82360610700	7	8	64	19	324.45
82360610800	8	8	64	21	354.10
82360610900	9	10	70	22	486.48
82360611000	10	10	70	22	486.48
82360611100	11	11	70	25	555.71
82360611200	12	12	76	25	672.14
82360611400	14	14	89	30	911.49
82360611600	16	16	89	32	1,051.64
82360611800	18	18	102	35	1,486.11
82360612000	20	20	102	38	1,793.01
82360612200	22	22	102	38	2,603.62
82360612500	25	25	102	38	2,767.33

8236711

Freza cilindro frontala cu cap semisferic, din carbura HM, Z3, norma TIVOLY

- *material: carbura HM*
- *cu cap rotund*
- *pentru oteluri cu rezistenta la rupere σr ≤ 1200 N/mm², aliaje de aluminiu, otel inoxidabil, fonta*
- *unghiul spirei: 30º*
- *numar de dinti: Z3*
- *toleranta: e8*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | Z3 | 30° | e8

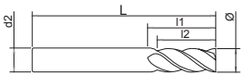
	Ø	d2	L	l2	
82367110100	1	3	39	3	141.67
82367110150	1,5	3	39	5	130.69
82367110200	2	3	39	7	130.69
82367110250	2,5	3	39	7	130.69
82367110300	3	3	39	9	130.69
82367110350	3,5	4	51	12	174.85
82367110400	4	4	51	14	174.85
82367110450	4,5	5	51	14	193.76
82367110500	5	5	51	16	193.76
82367110600	6	6	64	19	251.85
82367110700	7	8	64	19	324.45
82367110800	8	8	64	21	354.10
82367110900	9	10	70	22	486.48
82367111000	10	10	70	22	486.48
82367111100	11	11	70	25	555.71
82367111200	12	12	76	25	672.14
82367111400	14	14	89	30	911.49
82367111600	16	16	89	32	1,051.64
82367111800	18	18	102	35	1,486.11
82367112000	20	20	102	38	1,793.01
82367112200	22	22	102	38	2,603.62
82367112500	25	25	102	38	2,767.33

8236071

Freza cilindro frontala cu cap semisferic, din carbura HM, Z4, norma TIVOLY

- *material: carbura HM*
- *cu cap rotund*
- *pentru oteluri cu rezistenta la rupere σr ≤ 1200 N/mm², aliaje de aluminiu, otel inoxidabil, fonta*
- *unghiul spirei: 30º*
- *numar de dinti: Z4*
- *toleranta: h9*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | Z4 | 30° | h9

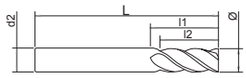
	Ø	d2	L	l2	
82360710100	1	3	39	3	141.67
82360710150	1,5	3	39	5	130.69
82360710200	2	3	39	7	130.69
82360710250	2,5	3	39	7	130.69
82360710300	3	3	39	9	130.69
82360710350	3,5	4	51	12	174.85
82360710400	4	4	51	14	174.85
82360710450	4,5	5	51	14	193.76
82360710500	5	5	51	16	193.76
82360710600	6	6	64	19	251.85
82360710700	7	8	64	19	324.45
82360710800	8	8	64	21	354.10
82360710900	9	10	70	22	486.48
82360711000	10	10	70	22	486.48
82360711100	11	11	70	25	555.71
82360711200	12	12	76	25	672.14
82360711400	14	14	89	30	911.49
82360711600	16	16	89	32	1,051.64
82360711800	18	18	102	35	1,486.11
82360712000	20	20	102	38	1,793.01
82360712200	22	22	102	38	2,603.62
82360712500	25	25	102	38	2,767.33

8030031

Freza cilindro frontala HSS-E8 (Co 8%), DIN 327D, Z2

- *material: HSS-E8 (Co 8%)*
- *conform DIN 327D*
- *varf drept, fara sanfren*
- *pentru oteluri cu rezistenta la rupere σr ≤ 1200 N/mm², aliaje de cupru, otel inoxidabil*
- *unghiul spirei: 30º*
- *numar de dinti: Z2*
- *toleranta: e8*





TIVOLY

HSS E8 | BRIGHT UNCOATED | DIN 327D | Z2 | 30° | e8

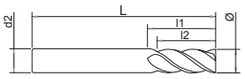
	Ø	d2	L	l2	
80300310100	1	6	47	2,5	94.71
80300310150	1,5	6	47	3	96.27
80300310200	2	6	48	4	84.46
80300310250	2,5	6	49	5	84.46
80300310300	3	6	49	5	84.46
80300310350	3,5	6	50	6	88.94
80300310400	4	6	51	7	84.46
80300310450	4,5	6	51	7	95.14
80300310500	5	6	52	8	84.46
80300310550	5,5	6	52	8	99.83
80300310600	6	6	52	8	84.46
80300310650	6,5	10	60	10	131.92
80300310700	7	10	60	10	127.34
80300310750	7,5	10	60	10	127.34
80300310800	8	10	61	11	109.00
80300310850	8,5	10	61	11	141.15
80300310900	9	10	61	11	125.94
80300310950	9,5	10	61	11	124.26
80300311000	10	10	63	13	119.73
80300311100	11	12	70	13	140.23
80300311200	12	12	73	16	132.19
80300311300	13	12	73	16	175.93
80300311400	14	12	73	16	164.28
80300311500	15	12	73	16	188.77
80300311600	16	16	79	19	187.53
80300311700	17	16	79	19	248.85
80300311800	18	16	79	19	226.74
80300311900	19	16	79	19	335.20
80300312000	20	20	88	22	311.36
80300312200	22	20	88	22	397.28
80300312400	24	25	102	26	558.28
80300312800	28	25	102	26	700.72
80300313000	30	25	102	26	777.14
80300313200	32	32	112	32	843.32
80300313600	36	32	112	32	953.78
80300314000	40	40	130	38	1,213.96

8030131

Freza cilindro frontala HSS-E8 (Co 8%), DIN 844BK, Z2

- *material: HSS-E8 (Co 8%)*
- *conform DIN 844BK*
- *varf drept, fara sanfren*
- *pentru oteluri cu duritate pana la 1200 N/mm², otel inoxidabil*
- *unghiul spirei: 30º*
- *numar de dinti: Z2*
- *toleranta: e8*





TIVOLY

HSS E8 | BRIGHT UNCOATED | DIN 844BK | Z2 | 30° | e8

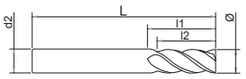
	Ø	d2	L	l2	
80301310200	2	6	51	7	110.51
80301310250	2,5	6	52	8	110.51
80301310300	3	6	52	8	110.51
80301310400	4	6	55	11	110.51
80301310500	5	6	57	13	110.51
80301310600	6	6	57	13	110.51
80301310700	7	10	66	16	164.23
80301310800	8	10	69	19	121.19
80301310900	9	10	69	19	162.61
80301311000	10	10	72	22	132.95
80301311100	11	12	79	22	181.00
80301311200	12	12	83	26	153.66
80301311400	14	12	83	26	200.53
80301311600	16	16	92	32	243.57
80301311800	18	16	92	32	295.72
80301312000	20	20	104	38	343.78

8030111

Freza cilindro frontala HSS-E8 (Co 8%), DIN 327D, Z3

- *material: HSS-E8 (Co 8%)*
- *conform DIN 327D*
- *varf drept, fara sanfren*
- *pentru oteluri cu rezistenta la rupere ≤ 1200 N/mm², otel inoxidabil*
- *unghiul spirei: 35º*
- *numar de dinti: Z3*
- *toleranta: e8*





TIVOLY

HSS E8 | BRIGHT UNCOATED | DIN 327D | Z3 | 35° | e8

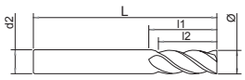
	Ø	d2	L	l2	
80301110200	2	6	48	4	95.57
80301110300	3	6	48	5	97.51
80301110400	4	6	51	7	98.75
80301110500	5	6	52	8	98.75
80301110600	6	10	60	10	98.75
80301110800	8	10	61	11	131.22
80301111000	10	10	63	13	122.38
80301111200	12	12	73	16	148.59
80301111400	14	12	73	16	192.55
80301111600	16	16	79	19	226.96
80301111800	18	16	79	19	273.61
80301112000	20	20	88	22	320.26
80301112200	22	20	88	22	493.61
80301112400	24	25	102	26	674.99
80301112800	28	25	102	26	856.32
80301113000	30	25	102	26	898.28

8034761

Freza cilindro frontala HSS-E8 (Co 8%), DIN 844BK, Z3

- *material: HSS-E8 (Co 8%)*
- *conform DIN 844BK*
- *varf drept, fara sanfren*
- *pentru oteluri cu rezistenta la rupere ≤ 1200 N/mm², otel inoxidabil, fonta, aliaj cupru*
- *unghiul spirei: 45º*
- *numar de dinti: Z3*
- *toleranta: e8*





TIVOLY

HSS E8 | BRIGHT UNCOATED | DIN 844BK | Z3 | 45° | e8

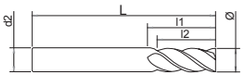
	Ø	d2	L	l2	
80347610300	3	6	52	8	100.91
80347610400	4	6	55	11	102.64
80347610450	4,5	6	55	11	120.00
80347610500	5	6	57	13	102.64
80347610550	5,5	6	57	13	137.42
80347610600	6	6	57	13	102.64
80347610700	7	10	66	16	155.82
80347610800	8	10	69	19	135.97
80347610900	9	10	69	19	167.36
80347611000	10	10	72	22	127.88
80347611200	12	12	83	26	155.01
80347611400	14	12	83	26	200.37
80347611600	16	16	92	32	246.53
80347611800	18	16	92	32	284.02
80347612000	20	20	104	38	332.51
80347612200	22	20	104	38	539.45
80347612500	25	25	121	45	732.00
80347613200	32	25	133	53	1,081.44

8030281

Freza cilindro frontala lunga, HSS-E8 (Co 8%), DIN 844BL, Z2-Z3

- *material: HSS-E8 (Co 8%)*
- *conform DIN 844BK*
- *varf drept, fara sanfren*
- *pentru oteluri cu rezistenta la rupere ≤ 1200 N/mm², aliaj aluminiu*
- *unghiul spirei: 45º*
- *numar de dinti: Z2-Z3*





TIVOLY

HSS E8 | BRIGHT UNCOATED | DIN 844BL | Z 2-3 | 45°

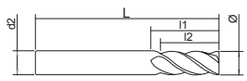
	Ø	d2	L	l2	Z	
80302810400	4	6	63	19	2	136.51
80302810600	6	6	68	24	2	141.15
80302810800	8	10	88	38	2	165.74
80302811000	10	10	95	45	3	185.00
80302811200	12	12	110	53	3	252.68
80302811400	14	12	110	53	3	322.96
80302811600	16	16	123	63	3	351.65
80302811800	18	16	123	63	3	471.39
80302812000	20	20	141	75	3	494.85

8030161

Freza cilindro frontala extralunga, HSS-E8 (Co 8%), Z4

- *material: HSS-E8 (Co 8%)*
- *varf drept, fara sanfren*
- *pentru oteluri cu rezistenta la rupere ≤ 1200 N/mm²*
- *unghiul spirei: 40º*
- *numar de dinti: Z4*





TIVOLY

HSS E8 | BRIGHT UNCOATED | TIVOLY NORM | Z4 | 40°

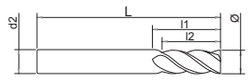
	Ø	d2	L	l2	Z	
80301610600	6	6	95	50	4	213.96
80301610800	8	10	110	60	4	291.46
80301611000	10	10	115	65	4	317.40
80301611200	12	12	130	75	4	368.05
80301611400	14	12	135	80	4	480.02
80301611600	16	16	155	95	4	499.86
80301611800	18	16	160	100	4	705.35
80301612000	20	20	175	110	4	706.81

8030191

Freza cilindro frontala HSS-E8 (Co 8%), DIN 844BK, Z3-Z6

- *material: HSS-E8 (Co 8%)*
- *conform DIN 844BK*
- *varf drept, fara sanfren*
- *pentru oteluri cu rezistenta la rupere ≤ 1200 N/mm², aliaj cupru, otel inoxidabil, fonta*
- *unghiul spirei: 40º*
- *numar de dinti: Z3-Z6*





TIVOLY

HSS E8 | BRIGHT UNCOATED | DIN 844BK | Z 3-6 | 40°

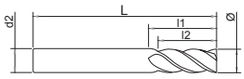
	Ø	d2	L	l2		
80301910200	2	6	51	7	3	93.58
80301910250	2,5	6	52	8	3	95.14
80301910300	3	6	52	8	3	84.46
80301910350	3,5	6	54	10	3	88.94
80301910400	4	6	55	11	4	81.28
80301910450	4,5	6	55	11	4	84.46
80301910500	5	6	57	13	4	81.28
80301910600	6	6	57	13	4	84.46
80301910700	7	10	66	16	4	129.60
80301910800	8	10	69	19	4	98.32
80301910900	9	10	69	19	4	130.74
80301911000	10	10	72	22	4	109.43
80301911200	12	12	83	26	4	149.78
80301911400	14	12	83	26	4	191.47
80301911500	15	12	92	32	4	229.22
80301911600	16	16	92	32	4	208.46
80301911800	18	16	92	32	4	278.63
80301912000	20	20	104	38	4	292.97
80301912200	22	20	104	38	4	467.77
80301912500	25	25	121	45	6	610.27
80301912800	28	25	121	45	6	765.28
80301913000	30	25	133	45	6	796.40
80301913200	32	32	133	53	6	872.28

8030231

Freza cilindro frontala lunga, HSS-E8 (Co 8%), DIN 844BL, Z4-Z6

- *material: HSS-E8 (Co 8%)*
- *conform DIN 844BL*
- *varf drept, fara sanfren*
- *pentru oteluri cu rezistenta la rupere ≤ 1200 N/mm², aliaj cupru, otel inoxidabil, fonta*
- *unghiul spirei: 40º*
- *numar de dinti: Z4-Z6*





TIVOLY

HSS E8 | BRIGHT UNCOATED | DIN 844BL | Z 4-6 | 40°

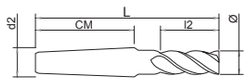
	Ø	d2	L	l2	Z	
80302310400	4	6	63	19	4	**105.82**
80302310600	6	6	68	24	4	**116.12**
80302310800	8	10	88	38	4	**139.10**
80302311000	10	10	95	45	4	**160.51**
80302311200	12	12	110	53	4	**198.59**
80302311400	14	12	110	53	4	**249.72**
80302311600	16	16	123	63	4	**276.74**
80302311800	18	16	123	63	4	**364.70**
80302312000	20	20	141	75	4	**433.31**
80302312200	22	22	141	75	4	**582.11**
80302312500	25	25	166	90	6	**845.75**
80302312800	28	25	166	90	6	**1,005.07**
80302313000	30	25	166	90	6	**1,041.15**
80302313600	36	36	186	106	6	**1,280.67**

8030421

Freza cilindro frontala DIN 845BK, HSS-E8 (Co 8%), Z4-6, coada Con Morse

- *material: HSS-E8 (Co 8%)*
- *varf drept, fara sanfren*
- *pentru oteluri cu rezistenta la rupere ≤ 1200 N/mm², fonta*
- *unghiul spirei: 40º*
- *numar de dinti: Z4-Z6*
- *coada Con Morse*





TIVOLY

HSS E8 | BRIGHT UNCOATED | DIN 845BK | Z 4-6 | 40°

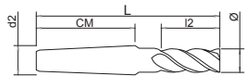
	Ø	L	l2	Z	CM	
803042121200	12	111	26	4	CM2	**369.94**
803042121400	14	111	26	4	CM2	**435.20**
803042121600	16	117	32	4	CM2	**407.69**
803042121800	18	117	32	4	CM2	**440.86**
803042122000	20	123	38	4	CM2	**486.11**
803042122200	22	123	38	4	CM2	**564.37**
803042132500	25	147	45	6	CM3	**738.15**
803042132800	28	147	45	6	CM3	**841.43**
803042133000	30	147	45	6	CM3	**918.67**
803042144000	40	188	63	6	CM4	**1,670.46**
803042145000	50	200	75	6	CM4	**2,515.93**

8030451

Freza cilindro frontala lunga, DIN 845BL, HSS-E8 (Co 8%), Z4-6, coada Con Morse

- *material: HSS-E8 (Co 8%)*
- *varf drept, fara sanfren*
- *pentru oteluri cu rezistenta la rupere ≤ 1200 N/mm², fonta*
- *unghiul spirei: 40º*
- *numar de dinti: Z4-Z6*
- *coada Con Morse*





TIVOLY

HSS E8 | BRIGHT UNCOATED | DIN 845BK | Z 4-6 | 40°

	Ø	L	l2	Z	CM	
803045121200	12	138	53	4	CM2	**424.19**
803045121400	14	138	53	4	CM2	**466.96**
803045121600	16	148	63	4	CM2	**486.11**
803045121800	18	148	63	4	CM2	**550.78**
803045122000	20	160	75	4	CM2	**740.36**
803045132000	20	177	75	4	CM2	**787.93**
803045122200	22	160	75	4	CM2	**790.03**
803045132200	22	177	75	4	CM3	**841.43**
803045132500	25	192	90	6	CM3	**1,089.96**
803045132800	28	192	90	6	CM3	**1,028.80**
803045143000	30	215	90	6	CM3	**1,317.94**
803045133200	32	208	106	6	CM3	**1,318.21**
803045143200	32	231	106	6	CM4	**1,411.57**
803045143600	36	231	106	6	CM4	**1,695.27**
803045144000	40	250	125	6	CM4	**1,941.69**
803045145000	50	275	150	6	CM4	**2,989.80**

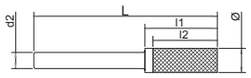


1031601

Freza din carbura de tungsten forma A - cilindrica, cu tais simplu tip C

- *material: carbura HM*
- *forma A - cilindrica*
- *pentru oteluri cu duritate pana la 1400 N/mm², otel inoxidabil*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | C

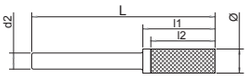
	Ø	d2	L	l2	
10316010400	4	6	50	14	115.26
10316010600	6	6	50	16	115.26
10316010800	8	6	65	20	138.94
10316011000	10	6	65	20	157.00
10316011200	12	6	70	25	208.40
10316011600	16	8	70	25	295.94
103160116006	16	6	70	25	295.94
103160120006	20	6	70	25	431.80

1031611

Freza din carbura de tungsten forma A - cilindrica, cu tais dublu (incrucisat) tip D

- *material: carbura HM*
- *forma A - cilindrica*
- *pentru oteluri cu rezistenta la rupere ≤ 700 N/mm², fonta, aliaje cupru*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

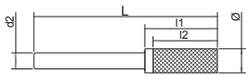
	Ø	d2	L	l2	
10316110400	4	6	50	14	137.69
10316110600	6	6	50	16	137.69
10316110800	8	6	65	20	165.42
10316111000	10	6	65	20	186.13
10316111200	12	6	70	25	249.99
10316111600	16	8	70	25	351.27
103161116006	16	6	70	25	351.27

1031621

Freza din carbura de tungsten forma A - cilindrica cu cap taietor, tais simplu tip C

- *material: carbura HM*
- *forma A - cilindrica cu cap taietor*
- *pentru oteluri cu duritate pana la 1400 N/mm², otel inoxidabil*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | C

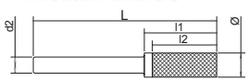
	Ø	d2	L	l2	
10316210400	4	6	50	14	126.48
10316210600	6	6	50	16	126.48
10316210800	8	6	65	20	151.45
10316211000	10	6	65	20	172.21
10316211200	12	6	70	25	229.11
10316211600	16	8	70	25	326.30
103162116006	16	6	70	25	326.30

1031631

Freza din carbura de tungsten forma A - cilindrica, cu tais dublu (incrucisat) tip D

- *material: carbura HM*
- *forma A - cilindrica cu cap taietor*
- *pentru oteluri cu rezistenta la rupere ≤ 700 N/mm², fonta, aliaje cupru*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

	Ø	d2	L	l2	
10316310400	4	6	50	14	151.45
10316310600	6	6	50	16	151.45
10316310800	8	6	65	20	181.92
10316311000	10	6	65	20	205.54
10316311200	12	6	70	25	274.96
10316311600	16	8	70	25	390.22
103163116006	16	6	70	25	390.22
10316312000	20	6	70	25	568.04

5105

Freze biax din carbura metalica sinterizata - CMS cilindrica cu taiere frontala, Forma B (ZYAS)

- *freze biax din carbura metalica sinterizata - CMS - cilindrica cu taiere frontala, forma B (ZYAS)*
- *in conformitate cu DIN 8033*
- *pentru a debavura, rotunjire muchii, curatire / finisare ornamente, curatire cordoane de sudura si operatii de prelucrare suprafete pentru piese din fonta, otel si otel inoxidabil.*
- *se foloseste pe masini portabile pneumatice sau electrice*



BOHRCRAFT | PROFI by BOHRCRAFT PLUS | DIN 8033 | VHM | B ZYAS | Z-KR

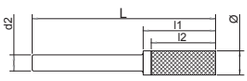
	Ø x lungime	LT	Coada	AMB	
51050300303	3 x 13	38	3	1	41.45
51050300600	6 x 16	50	6	1	68.42
51050300800	8 x 20	64	6	1	83.37
51050301000	10 x 20	64	6	1	100.01
51050301200	12 x 25	70	6	1	144.70
51050301600	16 x 25	70	6	1	213.73
51050301900	19 x 25	70	6	1	324.38

1036651

Freza din carbura de tungsten forma A - cilindrica cu cap taietor, tais simplu tip A

- *material: carbura HM*
- *forma A - cilindrica cu cap taietor*
- *pentru aluminiu*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | A

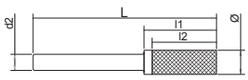
	Ø	d2	L	l2	
10366511200	12	6	33	33	274.96
10366511600	16	6	34	34	390.27

1031641

Freza din carbura de tungsten forma C - cilindrica cu cap rotunjit, tais simplu tip C

- *material: carbura HM*
- *forma C - cilindrica cu cap rotunjit*
- *pentru oteluri cu duritate pana la 1400 N/mm², otel inoxidabil*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | C

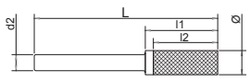
	Ø	d2	L	l2	
10316410400	4	6	50	14	125.07
10316410600	6	6	50	16	125.07
10316410800	8	6	65	20	158.46
10316411000	10	6	65	20	180.63
10316411200	12	6	70	25	255.60
10316411600	16	8	70	25	334.56
103164116006	16	6	70	25	334.56

1031651

Freza din carbura de tungsten forma C - cilindrica cu cap rotunjit, tais dublu (incrucisat) tip D

- *material: carbura HM*
- *forma C - cilindrica cu cap rotunjit*
- *pentru oteluri cu duritate pana la 700 N/mm², fonta, aliaje cupru*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

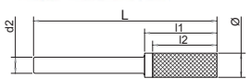
	Ø	d2	L	l2	
10316510400	4	6	50	14	149.99
10316510600	6	6	50	16	149.99
10316510800	8	6	65	20	187.53
10316511000	10	6	65	20	215.25
10316511200	12	6	70	25	306.89
10316511600	16	8	70	25	401.33
103165116006	16	6	70	25	401.33
10316512000	20	8	70	25	601.37
103165120006	20	6	70	25	601.37

1036681

Freza din carbura de tungsten forma C - cilindrica cu cap rotunjit, tais simplu tip A

- *material: carbura HM*
- *forma C - cilindrica cu cap rotunjit*
- *pentru aluminiu*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | A

	Ø	d2	L	l2	
10366811000	10	6	65	20	215.25
10366811200	12	6	70	25	306.89
10366811600	16	6	70	25	375.06

5110

Freze biax din carbura metalica sinterizata - CMS cilindrica cu cap semisferic, Forma C (WRC)

- *freze biax din carbura metalica sinterizata - CMS - cilindrica cu taiere frontala, forma C (WRC)*
- *in conformitate cu DIN 8033*
- *pentru a debavura, rotunjire muchii, curatire / finisare ornamente, curatire cordoane de sudura si operatii de prelucrare suprafete pentru piese din fonta, otel si otel inoxidabil.*
- *se foloseste pe masini portabile pneumatice sau electrice*



BOC BOHRCRAFT | PROFI by BOHRCRAFT PLUS | DIN 8033 | VHM | C WRC | Z-KR

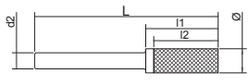
	Ø x lungime	LT	Coada	AMB	
51100300303	3 x 13	38	3	1	41.45
51100300600	6 x 16	50	6	1	66.42
51100300800	8 x 20	64	6	1	77.51
51100301000	10 x 20	64	6	1	100.01
51100301200	12 x 25	70	6	1	142.54
51100301600	16 x 25	70	6	1	221.29
51100301900	19 x 25	70	6	1	318.21

1031701

Freza din carbura de tungsten forma M - conica cu varf ascutit, tais simplu tip C

- *material: carbura HM*
- *forma M - conica cu varf ascutit*
- *pentru oteluri cu rezistenta la rupere ≤ 1400 N/mm², otel inoxidabil*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | C

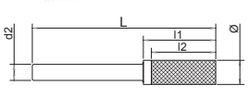
	Ø	d2	L	l2	
10317010600	6	6	50	16	123.78
10317010800	8	6	63	16	130.58
10317011000	10	6	65	20	151.45
10317011200	12	6	70	25	183.32
10317011600	16	8	70	25	247.18
103170116006	16	6	70	25	247.18
10317012000	20	8	70	25	334.56

1031711

Freza din carbura de tungsten forma M - conica cu varf ascutit, tais dublu (incrucisat) tip D

- *material: carbura HM*
- *forma M - conica cu varf ascutit*
- *pentru oteluri cu rezistenta la rupere ≤ 700 N/mm², fonta, aliaje cupru*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

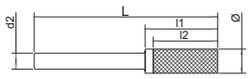
	Ø	d2	L	l2	
10317110400	4	6	50	12	148.75
10317110600	6	6	50	16	148.75
10317110800	8	6	63	16	157.00
10317111000	10	6	65	20	180.63
10317111200	12	6	70	25	219.57
10317111600	16	8	70	25	301.39
103171116006	16	6	70	25	301.39

1031721

Freza din carbura, conica cu varf ascutit la 90º, tais simplu tip C

- *material: carbura HM*
- *conica cu varf ascutit la 90º*
- *pentru oteluri cu rezistenta la rupere ≤ 1400 N/mm², otel inoxidabil*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | 90° | C

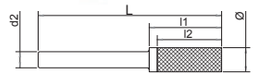
	Ø	d2	L	l2	
10317210400	4	6	50	12	104.31
10317210600	6	6	50	16	104.31
10317210800	8	6	63	16	109.92
10317211000	10	6	65	20	125.07
10317211200	12	6	70	25	157.00
103172116006	16	8	70	25	183.32

1031741

Freza din carbura, conica cu varf ascutit la 60º, tais simplu tip C

- *material: carbura HM*
- *conica cu varf ascutit la 60º*
- *pentru oteluri cu duritate pana la 1400 N/mm², otel inoxidabil*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | 60° | C

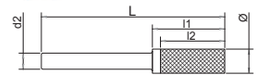
	Ø	d2	L	l2	
10317410400	4	6	50	12	108.46
10317410600	6	6	50	16	108.46
10317411000	10	6	65	20	130.58
10317411200	12	6	70	25	162.45
103174116006	16	8	70	25	198.64

1031761

Freza din carbura de tungsten forma L - conica cu cap rotunjit, tais simplu tip C

- *material: carbura HM*
- *forma L - conica cu cap rotunjit*
- *pentru oteluri cu rezistenta la rupere ≤ 1400 N/mm², otel inoxidabil*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | C

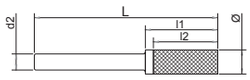
	Ø	d2	L	l2	
10317610600	6	6	50	20	134.84
10317610800	8	6	65	20	173.67
10317611000	10	6	65	20	211.21
10317611200	12	6	70	25	257.00
10317611600	16	8	75	30	388.87
103176116006	16	6	70	30	388.87

1031771

Freza din carbura de tungsten forma L - conica cu cap rotunjit, tais dublu (incrucisat) tip D

- *material: carbura HM*
- *forma L - conica cu cap rotunjit*
- *pentru oteluri cu duritate pana la 700 N/mm², fonta, aliaje cupru*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

	Ø	d2	L	l2	
10317710600	6	6	50	20	160.99
10317710800	8	6	65	20	206.95
10317711000	10	6	65	20	252.68
10317711200	12	6	70	25	306.89
103177116006	16	6	70	30	465.18

5150

Fraze biax din carbura metalica sinterizata - CMS conica cu varf rotunjit, Forma L (KEL)

- *fraze biax din carbura metalica sinterizata - CMS - conica cu varf rotunjit, forma L (KEL)*
- *in conformitate cu DIN 8033*
- *pentru a debavura, rotunjire muchii, curatire / finisare ornamente, curatire cordoane de sudura si operatii de prelucrare suprafete pentru piese din fonta, otel si otel inoxidabil.*
- *se foloseste pe masini portabile pneumatice sau electrice*



BOC BOHRCRAFT | PROFI by BOHRCRAFT PLUS | DIN 8033 | VHM | L KEL | Z-KR

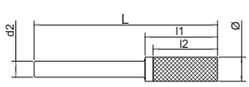
	Ø x lungime	LT	Coada	AMB	
51500300303	3 x 13	38	3	1	42.84
51500300600	6 x 16	50	6	1	68.88
51500300800	8 x 22	70	6	1	95.54
51500301000	10 x 25	76	6	1	132.68
51500301200	12 x 28	77	6	1	152.25
51500301600	16 x 33	78	6	1	242.09

1036701

Freza din carbura de tungsten forma L - conica cu cap rotunjit, tais simplu tip A

- *material: carbura HM*
- *forma L - conica cu cap rotunjit*
- *pentru aluminiu*





TIVOLY

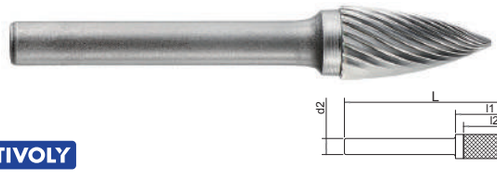
HM CARB | BRIGHT UNCOATED | TIVOLY NORM | A

	Ø	d2	L	l2	
10367011000	10	6	65	20	252.68
10367011200	12	6	70	25	306.89
10367011600	16	6	70	30	465.18

1031781

Freza din carbura de tungsten forma G - arcuita cu cap ascutit, tais simplu tip C

- *material: carbura HM*
- *forma C - arcuita cu cap ascutit*
- *pentru oteluri cu rezistenta la rupere ≤ 1400 N/mm², otel inoxidabil*



TIVOLY

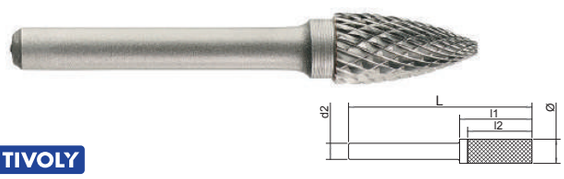
HM CARB | BRIGHT UNCOATED | TIVOLY NORM | C

	Ø	d2	L	l2	
10317810400	4	6	50	14	141.69
10317810600	6	6	50	18	141.69
10317810800	8	6	63	18	145.84
10317811000	10	6	65	20	172.21
10317811200	12	6	70	25	202.85
10317811600	16	8	75	30	298.69
103178116006	16	6	75	30	298.69

1031791

Freza din carbura de tungsten forma G - arcuita cu cap ascutit, tais dublu (incrucisat) tip D

- *material: carbura HM*
- *forma G - arcuita cu cap ascutit*
- *pentru oteluri cu duritate pana la 700 N/mm², fonta, aliaj cupru*



TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

	Ø	d2	L	l2	
10317910600	6	6	50	18	170.76
10317910800	8	6	63	18	175.07
10317911000	10	6	65	20	206.95
10317911200	12	6	70	25	243.19
10317911600	16	8	75	30	359.80
103179116006	16	6	70	30	359.80

5130

Fraze biax din carbura metalica sinterizata - CMS arc cu varf ascutit, Forma G (SPG)

- *fraze biax din carbura metalica sinterizata - CMS - arc cu varf ascutit, forma G (SPG)*
- *in conformitate cu DIN 8033*
- *pentru a debavura, rotunjire muchii, curatire / finisare ornamente, curatire cordoane de sudura si operatii de prelucrare suprafete pentru piese din fonta, otel si otel inoxidabil.*
- *se foloseste pe masini portabile pneumatice sau electrice*



BOC BOHRCRAFT | PROFI by BOHRCRAFT PLUS | DIN 8033 | VHM | G SPG | Z-KR

	Ø x lungime	LT	Coada	AMB	
51300300303	3 x 14	38	3	1	42.84
51300300600	6 x 18	50	6	1	68.88
51300300800	8 x 20	65	6	1	73.35
51300301000	10 x 19	64	6	1	97.85
51300301200	12 x 25	70	6	1	136.99
51300301600	16 x 25	70	6	1	221.13

5035

Fraze biax din carbura metalica sinterizata - CMS flacara, Forma H (FLH)

- *fraze biax din carbura metalica sinterizata - CMS - flacara, forma H (FLH)*
- *in conformitate cu DIN 8033*
- *pentru a debavura, rotunjire muchii, curatire / finisare ornamente, curatire cordoane de sudura si operatii de prelucrare suprafete pentru piese din fonta, otel si otel inoxidabil.*
- *se foloseste pe masini portabile pneumatice sau electrice*



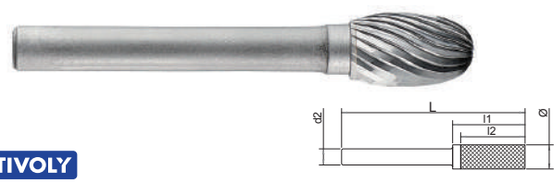
BOC BOHRCRAFT | PROFI by BOHRCRAFT PLUS | DIN 8033 | VHM | H FLH | Z-KR

	Ø x lungime	LT	Coada	AMB	
51350300303	3 x 6	38	3	1	36.06
51350300600	6 x 18	50	6	1	85.06
51350300800	8 x 20	64	6	1	96.62
51350301000	10 x 20	64	6	1	138.07
51350301200	12 x 32	77	6	1	165.96
51350301600	16 x 36	81	6	1	224.06

1031801

Freza din carbura de tungsten forma E - ovala, tais simplu tip C

- *material: carbura HM*
- *forma E - ovala*
- *pentru oteluri cu duritate pana la 1400 N/mm², otel inoxidabil*



TIVOLY

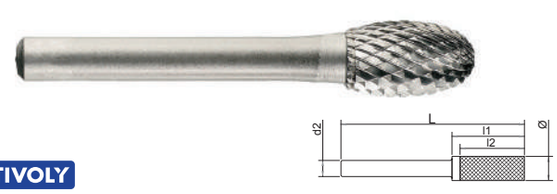
HM CARB | BRIGHT UNCOATED | TIVOLY NORM | C

	Ø	d2	L	l2	
10318010600	6	6	50	10	129.28
10318010800	8	6	58	13	143.14
10318011000	10	6	61	16	172.21
10318011200	12	6	65	20	206.95
10318011600	16	8	70	25	298.69
103180116006	16	6	70	25	298.69

1031811

Freza din carbura de tungsten forma E - ovala, tais dublu (incrucisat) tip D

- *material: carbura HM*
- *forma E - ovala*
- *pentru oteluri cu duritate pana la 700 N/mm², fonta, aliaj cupru*



TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

	Ø	d2	L	l2	
10318110400	4	6	50	6	155.60
10318110600	6	6	50	10	155.60
10318110800	8	6	58	13	172.21
10318111000	10	6	61	16	206.95
10318111200	12	6	65	20	247.18
10318111600	16	8	70	25	359.80
103181116006	16	6	70	25	359.80
10318112000	20	8	70	25	568.04
103181120006	20	6	70	25	568.04

5120

Fraze biax din carbura metalica sinterizata - CMS ovala, Forma E (TRE)

- *fraze biax din carbura metalica sinterizata - CMS - ovala, forma E (TRE)*
- *in conformitate cu DIN 8033*
- *pentru a debavura, rotunjire muchii, curatire / finisare ornamente, curatire cordoane de sudura si operatii de prelucrare suprafete pentru piese din fonta, otel si otel inoxidabil.*
- *se foloseste pe masini portabile pneumatice sau electrice*



B&C BOHRCRAFT | PROFI by BOHRCRAFT PLUS | DIN 8033 | VHM | E TRE | Z-KR

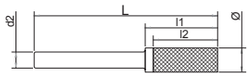
	Ø x lungime	LT	Coada	AMB	
51200300303	3 x 6	38	3	1	36.06
51200300600	6 x 10	50	6	1	80.29
51200300800	8 x 13	60	6	1	81.67
51200301000	10 x 16	60	6	1	96.77
51200301200	12 x 20	65	6	1	138.07
51200301600	16 x 25	70	6	1	200.64

1036661

Freza din carbura de tungsten forma E - ovala, tais simplu tip A

- *material: carbura HM*
- *forma E - ovala*
- *pentru aluminiu*





TIVOLY | HM CARB | BRIGHT UNCOATED | TIVOLY NORM | A

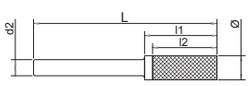
	Ø	d2	L	l2	
10366611200	12	6	65	20	247.18
10366611600	16	6	70	25	359.80

1036671

Freza din carbura de tungsten forma F - arcuita cu cap rotunjit, tais simplu tip A

- *material: carbura HM*
- *forma F - arcuita cu cap rotunjit*
- *pentru aluminiu*





TIVOLY | HM CARB | BRIGHT UNCOATED | TIVOLY NORM | A

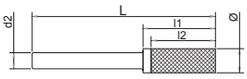
	Ø	d2	L	l2	
10366711000	10	6	65	20	221.72
10366711200	12	6	70	25	262.44
10366711600	16	6	75	30	375.06

1031831

Freza din carbura de tungsten forma F - arcuita cu cap rotunjit, tais dublu (incrucisat) tip D

- *material: carbura HM*
- *forma F - arcuita cu cap rotunjit*
- *pentru oteluri cu rezistenta la rupere ≤ 700 N/mm², fonta, aliaj cupru*





TIVOLY | HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

	Ø	d2	L	l2	
10318310600	6	6	50	18	177.71
10318310800	8	6	63	18	184.73
10318311000	10	6	65	20	219.57
10318311200	12	6	70	25	262.44
10318311600	16	8	75	30	375.06
103183116006	16	6	75	30	375.06
10318312000	20	8	75	30	697.16
103183120006	20	6	75	30	697.16

5125

Fraze biax din carbura metalica sinterizata - CMS arc cu varf rotunjit, Forma F (RBF)

- *fraze biax din carbura metalica sinterizata - CMS - arc cu varf rotunjit, forma F (RBF)*
- *in conformitate cu DIN 8033*
- *pentru a debavura, rotunjire muchii, curatire / finisare ornamente, curatire cordoane de sudura si operatii de prelucrare suprafete pentru piese din fonta, otel si otel inoxidabil.*
- *se foloseste pe masini portabile pneumatice sau electrice*



B&C BOHRCRAFT | PROFI by BOHRCRAFT PLUS | DIN 8033 | VHM | F RBF | Z-KR

	Ø x lungime	LT	Coada	AMB	
51250300303	3 x 14	38	3	1	42.84
51250300600	6 x 18	50	6	1	68.88
51250300800	8 x 20	65	6	1	83.37
51250301000	10 x 19	64	6	1	88.61
51250301200	12 x 25	70	6	1	138.38
51250301600	16 x 25	70	6	1	224.06



Forma A cilindrica (ZYA) fara capat dintat

Forma B cilindrica (ZYAS)cu capat dintat

Forma C ovala, cilindrica rotunjita (WRC)

Forma G copac, arc ascutit (SPG)

Forma F minge-copac, arc rotunjit (RBF)

Forma M de con, con ascutit (SKM)

Forma D minge, sferica (KUD)

Forma E picatura (TRE)

Forma H flacara (FLH)

Forma J con 60° (KSJ)

Forma L con rotunjit (KEL)

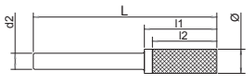
Forma N unghi (WKN)

1031821

Freza din carbura de tungsten forma F - arcuita cu cap rotunjit, tais simplu tip C

- *material: carbura HM*
- *forma F - arcuita cu cap rotunjit*
- *pentru oteluri cu rezistenta la rupere ≤ 1400 N/mm², otel inoxidabil*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | C

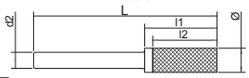
	Ø	d2	L	l2	
10318210600	6	6	50	18	147.24
10318210800	8	6	63	18	154.20
10318211000	10	6	65	20	183.32
10318211200	12	6	70	25	219.57
10318211600	16	8	75	30	313.84
103182116006	16	6	75	30	313.84

1031841

Freza din carbura de tungsten forma D - sferica, tais simplu tip C

- *material: carbura HM*
- *forma D - sferica*
- *pentru oteluri cu rezistenta la rupere ≤ 1400 N/mm², otel inoxidabil*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | C

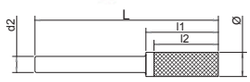
	Ø	d2	L	l2	
10318410400	4	6	50	18	125.07
10318410600	6	6	50	18	125.07
10318410800	8	6	63	18	130.58
10318411000	10	6	65	20	151.34
10318411200	12	6	70	25	183.32
10318411600	16	8	75	30	261.10
103184116006	16	6	75	30	261.10
103184120006	20	6	75	30	416.59

1031851

Freza din carbura de tungsten forma D - sferica, cu tais dublu (incrucisat) tip D

- *material: carbura HM*
- *forma D - sferica*
- *pentru oteluri cu rezistenta la rupere 700 N/mm², fonta, aliaj cupru*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

	Ø	d2	L	l2	
10318510400	4	6	50	18	149.99
10318510600	6	6	50	18	149.99
10318510800	8	6	63	18	157.00
10318511000	10	6	65	20	181.92
10318511200	12	6	70	25	219.57
103185116006	16	6	75	30	312.55
10318512000	20	8	75	30	499.86
103185120006	20	6	75	30	499.86

5115

Freze biax din carbura metalica sinterizata - CMS sferica, Forma D (KUD)

- *freze biax din carbura metalica sinterizata - CMS - sferica, forma D (KUD)*
- *in conformitate cu DIN 8033*
- *pentru a debavura, rotunjire muchii, curatire / finisare ornamente, curatire cordoane de sudura si operatii de prelucrare suprafete pentru piese din fonta, otel si otel inoxidabil.*
- *se foloseste pe masini portabile pneumatice sau electrice*



BOC BOHRCRAFT | PROFI by BOHRCRAFT PLUS | DIN 8033 | VHM | D KUD | Z-KR

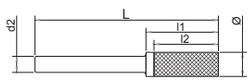
	Ø x lungime	LT	Coada	AMB	
51150300303	3 x 2,5	38	3	1	36.06
51150300600	6 x 5	50	6	1	67.34
51150300800	8 x 6	52	6	1	81.98
51150301000	10 x 9	54	6	1	96.77
51150301200	12 x 10	56	6	1	106.48
51150301600	16 x 14	59	6	1	160.42

1036691

Freza din carbura de tungsten forma D - sferica, tais simplu tip A

- *material: carbura HM*
- *forma D - sferica*
- *pentru aluminiu*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | A

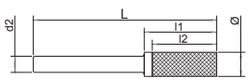
	Ø	d2	L	l2	
10366911000	10	6	65	20	182.03
10366911200	12	6	70	25	219.57

1031632

Freza din carbura de tungsten forma A - cilindrica cu cap taietor, ascutire dubla tip D

- *material: carbura HM*
- *forma A - cilindrica cu cap taietor*
- *pentru oteluri cu duritate pana la 700 N/mm², fonta, aliaj cupru*





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

	Ø	d2	L	l2	
10316320600	6	6	50	16	151.45
10316320800	8	8	65	20	181.92
10316321000	10	10	65	20	205.54
10316321200	12	12	70	25	274.96

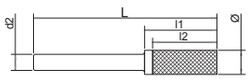
1031652

Freza din carbura de tungsten forma C - cilindrica cu cap rotunjit, ascutire dubla tip D

- *material: carbura HM*
- *forma C - cilindrica cu cap rotunjit*
- *pentru oteluri cu duritate pana la 700 N/mm², fonta, aliaj cupru*



TIVOLY



HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

	Ø	d2	L	l2	
10316520600	6	6	50	16	149.99
10316520800	8	6	65	20	187.53
10316521000	10	6	65	20	215.25
10316521200	12	6	70	25	306.89

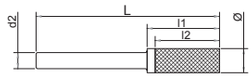
1031852

Freza din carbura de tungsten forma D - sferica, ascutire dubla tip D

- *material: carbura HM*
- *forma D - sferica*
- *pentru oteluri cu duritate pana la 700 N/mm², fonta, aliaj cupru*



TIVOLY



HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

	Ø	d2	L	l2	
10318520600	6	6	50	18	149.99
10318520800	8	6	63	18	157.00
10318521000	10	6	70	20	181.92
10318521200	12	6	75	25	219.57

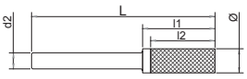
1031792

Freza din carbura de tungsten forma G - arcuita cu cap ascutit, ascutire dubla tip D

- *material: carbura HM*
- *forma G - arcuita cu cap ascutit*
- *pentru oteluri cu duritate pana la 700 N/mm², fonta, aliaj cupru*



TIVOLY



HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

	Ø	d2	L	l2	
10317920600	6	6	50	18	170.76
10317920800	8	6	63	18	175.07
10317921000	10	6	65	20	206.95
10317921200	12	6	70	25	243.19

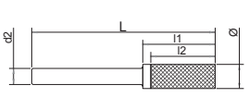
1031832

Freza din carbura de tungsten forma F - arcuita cu cap rotunjit, ascutire dubla tip D

- *material: carbura HM*
- *forma F - arcuita cu cap rotunjit*
- *pentru oteluri cu duritate pana la 700 N/mm², fonta, aliaj cupru*



TIVOLY



HM CARB | BRIGHT UNCOATED | TIVOLY NORM | D

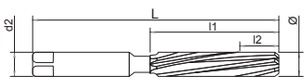
	Ø	d2	L	l2	
10318320600	6	6	50	18	177.71
10318320800	8	6	63	18	184.73
10318321000	10	6	65	20	219.57
10318321200	12	6	70	25	262.44

1040021

Alezor NFE 66019 similar DIN 206 forma B, HSS

- *material: HSS*
- *in conformitate cu NFE 66019 similar DIN 206 forma B*
- *toleranta: m5*
- *unghiul spirei: 10°*
- *pentru oteluri ne aliate, aliate si pentru tratament termic cu σr ≤ 700 N / mm²*





TIVOLY

HSS | BRIGHT UNCOATED | NFE 66019 | 10° | m5

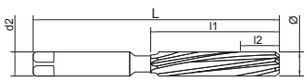
	Ø	d2	L	l2	
10400210200	2	2	50	25	209.97
10400210250	2,5	2,5	58	29	204.57
10400210300	3	3	62	31	204.57
10400210350	3,5	3,5	70	35	204.57
10400210400	4	4	76	38	212.23
10400210450	4,5	4,5	82	41	212.23
10400210500	5	5	87	44	212.23
10400210550	5,5	5,5	93	47	212.23
10400210600	6	6	93	47	212.23
10400210650	6,5	6,5	100	50	231.97
10400210700	7	7	107	54	243.57
10400210750	7,5	7,5	107	54	243.57
10400210800	8	8	115	58	247.13
10400210850	8,5	8,5	115	58	247.13
10400210900	9	9	124	62	257.86
10400210950	9,5	9,5	124	62	257.86
10400211000	10	10	133	60	279.92
10400211100	11	11	142	71	289.03
10400211200	12	12	152	76	313.36
10400211300	13	13	152	76	336.87
10400211400	14	14	163	81	361.20
10400211500	15	15	163	81	400.09
10400211600	16	16	175	87	425.17
10400211700	17	17	175	87	463.84
10400211800	18	18	188	93	498.79
10400211900	19	19	188	96	541.29
10400212000	20	20	201	100	580.12
10400212100	21	21	201	100	754.22
10400212200	22	22	215	107	779.30
10400212300	23	23	215	107	836.09
10400212400	24	24	231	115	971.63
10400212500	25	25	231	115	987.97
10400212600	26	26	231	115	1,072.49
10400212700	27	27	247	124	1,190.71
10400212800	28	28	247	124	1,201.98
10400212900	29	29	247	124	1,362.92
10400213000	30	30	247	124	1,377.27
10400213100	31	31	265	133	1,606.98
10400213200	32	32	265	133	1,606.98

8040131

Alezor de masina NFE 66014 echivalent DIN 212 forma B, HSS E5 (Co 5%)

- *material: HSS-E5 (Co 5%)*
- *in conformitate cu NFE 66014 echivalent DIN 212 forma B*
- *toleranta: m5*
- *unghiul spirei: 10º*
- *pentru oteluri ne aliate, aliate si pentru tratament termic cu σr ≤ 1200 N / mm² si oteluri inoxidabile*





TIVOLY

HSS E5 | BRIGHT UNCOATED | NFE 66014 | Z 4-8 | 10° | m5

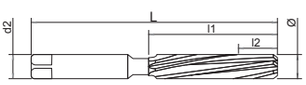
	Ø	d2	L	l1	l2	Z	
80401310100	1	1	38	15	12	4	221.35
80401310150	1,5	1,5	43	26	18	4	213.80
80401310200	2	2	49	31	19	6	187.96
80401310250	2,5	2,5	57	38	20	6	180.36
80401310300	3	3	57	38	20	6	154.41
80401310400	4	4	75	50	24	6	154.41
80401310500	5	5	86	59	26	6	173.61
80401310550	5,5	5,5	93	65	27	6	173.61
80401310600	6	6	101	71	28	6	173.61
80401310650	6,5	6,5	101	71	28	6	173.61
80401310700	7	7	109	78	31	6	217.52
80401310800	8	8	117	84	33	6	212.23
80401310900	9	9	125	88	36	6	287.63
80401310950	9,5	9,5	125	88	36	6	287.63
80401311000	10	10	133	97	38	6	280.62
80401311100	11	11	133	97	38	6	309.53
80401311200	12	12	151	110	44	6	309.53
80401311300	13	13	151	110	44	8	349.98
80401311400	14	14	160	114	47	8	349.98
80401311500	15	15	162	115	50	8	412.92
80401311600	16	16	170	120	52	8	412.92
80401311700	17	17	175	123	54	8	473.00
80401311800	18	18	182	132	56	8	473.00
80401311900	19	19	159	140	58	8	555.85
80401312000	20	20	195	150	60	8	555.85

8040171

Alezor de masina cu coada conica, NFE 66015 similar DIN 208 forma B, HSS E5 (Co 5%)

- *material: HSS-E5 (Co 5%)*
- *in conformitate cu NFE 66015 similar DIN 208 forma B*
- *toleranta: m5*
- *unghiul spirei: 10º*
- *pentru oteluri ne aliate, aliate si pentru tratament termic cu σr ≤ 1200 N / mm² si oteluri inoxidabile*





TIVOLY

HSS | BRIGHT UNCOATED | NFE 66015 | 10° | m5

	Ø	L	l1	l2	CM	
80401710600	6	138	72	28	CM1	295.13
80401710700	7	150	84	31	CM1	301.01
80401710800	8	156	90	33	CM1	310.99
80401710900	9	162	96	36	CM1	317.08
80401711000	10	168	102	38	CM1	331.32
80401711100	11	175	109	41	CM1	345.72
80401711200	12	182	116	44	CM1	360.12
80401711300	13	182	116	44	CM1	393.18
80401711400	14	189	123	47	CM1	393.18
80401711500	15	204	124	50	CM2	452.13
80401711600	16	210	130	52	CM2	479.21
80401711700	17	214	134	54	CM2	508.17
80401711800	18	219	139	56	CM2	548.67
80401711900	19	223	143	58	CM2	593.39
80401712000	20	228	148	60	CM2	632.27
80401712100	21	232	152	62	CM2	682.05
80401712200	22	237	157	64	CM2	726.71
80401712300	23	241	161	66	CM2	787.66
80401712400	24	268	169	68	CM2	998.65
80401712500	25	268	169	68	CM3	998.65
80401712600	26	273	174	70	CM3	1,086.51
80401712700	27	277	178	71	CM3	1,199.02
80401712800	28	277	178	71	CM3	1,199.02
80401712900	29	281	181	73	CM3	1,362.98
80401713000	30	281	182	73	CM3	1,362.98
80401713200	32	317	193	77	CM4	1,463.51
80401713500	35	321	197	78	CM4	1,841.75
80401714000	40	329	205	81	CM4	2,271.07
80401714500	45	336	212	83	CM4	2,885.28
80401715000	50	344	220	83	CM4	3,662.53

V10

Trusa burghie DIN 338, HSS, laminate, 1,0-10,0 mm x 0,5 mm, 19 piese



BOC BOHRCRAFT

	COMPONENTA	
11001410119	19 piese	87.84
	1,0-10,0 mm x 0,5 mm / 19 piese	

902001

Set burghie DIN 338, laminate, HSS

- *material: HSS*
- *in conformitate cu DIN 338*



19 PCS | HSS | STEAM TREATED | DIN 338 | 118°

TIVOLY

	Dimensiune	
90200170002	1,0-10,0 mm x 0,5 mm / 19 piese	79.88
90200170003	1,0-13,0 mm x 0,5 mm / 25 piese	164.39

P6

Trusa burghie DIN 338, HSS, laminate, 2,0-8,0 mm / 6 piese



	COMPONENTA	
11001430006	6 piese	**30.67**
	2,0-8,0 mm / 6 piese	

VG10

Trusa burghie DIN 338, HSS-G, rectificate, 1,0-10,0 mm x 0,5 mm 19 piese



	COMPONENTA	
11201410119	19 piese	**134.22**
	1,0-10,0 mm x 0,5 mm / 19 piese	

MT13

Trusa burghie DIN 338, HSS-TiN, rectificate, 1,0-13,0 mm x 0,5 mm 25 piese



	COMPONENTA	
11301310025	25 piese	**285.08**
	1,0-13,0 mm x 0,5 mm / 25 piese	

11453170001

Set burghie DIN 338, titanizate, HSS 1-10 mm x 1,0 mm / 10 piese

- *material: HSS, acoperire TiN*
- *in conformitate cu DIN 338*

TIVOLY



135° | 10 PCS | HSS | TiN COATED | DIN 338

	Dimensiune	
11453170001	1,0-10,0 mm x 1,0 mm / 10 piese	**176,61**

11452070015

Set burghie DIN 338, rectificate, HSS 1-10 mm x 0,5 mm / 19 piese

- *material: HSS*
- *in conformitate cu DIN 338*

TIVOLY



118° | 19 PCS | HSS | BRIGHT UNCOATED | DIN 338

	Dimensiune	
11452070015	1,0-10,0 mm x 0,5 mm / 19 piese	**236.72**

11452070017

Set burghie DIN 338, rectificate, HSS 1-13 mm x 0,5 mm / 25 piese

- *material: HSS*
- *in conformitate cu DIN 338*

TIVOLY



118° | 25 PCS | HSS | BRIGHT UNCOATED | DIN 338

	Dimensiune	
11452070017	1,0-13,0 mm x 0,5 mm / 25 piese	**420.63**

VE10

Trusa burghie DIN 338, HSS-E Co 5%, rectificate, 1,0-10,0 mm x 0,5 mm / 19 piese



	COMPONENTA	
11401410119	19 piese	**288.16**
	1,0-10,0 mm x 0,5 mm / 19 piese	

11455070015

Set burghie DIN 338, rectificate, HSS-Co 5% 1-10 mm x 0,5 mm / 19 piese

- *material: HSS-Co 5%*
- *in conformitate cu DIN 338*

TIVOLY



135° | 19 PCS | HSS E5 | GOLD TREATED | DIN 338

	Dimensiune	
11455070015	1,0-10,0 mm x 0,5 mm / 19 piese	**368.37**

11455070017

Set burghie DIN 338, rectificate, HSS-Co 5% 1-13 mm x 0,5 mm / 25 piese

- *material: HSS-Co 5%*
- *in conformitate cu DIN 338*

TIVOLY



135° | 25 PCS | HSS E5 | GOLD TREATED | DIN 338

	Dimensiune	
11455070017	1,0-13,0 mm x 0,5 mm / 25 piese	**773.69**

H50

Trusa burghie CV pentru lemn 5 piese



	COMPONENTA	
31001430005	5 piese	**34.21**
	4,0 / 5,0 / 6,0 / 8,0 / 10,0 mm	

S410

Trusa burghie placate TCT pentru zidarie 5 piese



	COMPONENTA	
21001430005	5 piese	**42.84**
	4,0 / 5,0 / 6,0 / 8,0 / 10,0 mm	

GK12

Trusa tarozi si burghie 28 piese



	COMPONENTA	
41001410028	28 piese	**405.12**
	tarozi set 3 DIN 352 HSS-G: M 3 - M12 burghie DIN 338 HSS: 2.5, 3.3, 4.2, 5.0, 6.8, 8.5, 10.2 mm	

KS 6 HSS

Trusa tesitoare conice 6 piese



	COMPONENTA	
17001410006	6 piese	**302.03**
	6,3 / 8,3 / 10,4 / 12,4 / 16,5 / 20,5 mm	

KSB 6

Trusa tesitoare cu prindere 1/4" conice 6 piese



	COMPONENTA	
17051410006	6 piese	**360.44**
	16,3 / 8,3 / 10,4 / 12,4 / 16,5 / 20,5 mm	

GW12

Trusa tarozi si filiere M3-M12 44 piese



	COMPONENTA	
60001410044	44 piese	**846.00**
	tarozi set 3 DIN 352 HSS-G: M 3 - M12 filiere DIN 223 B HSS-G: M 3 - M 12 port filiera DIN 225: 20x5 / 20x7 / 25x9 / 30x11 / 38x14 port tarod DIN 1814: Nr. 1 + 2 surubelnita, set lere DIN 338 HSS: 2.5, 3.3, 4.2, 5.0, 6.8, 8.5, 10.2 mm	

GW20

Trusa tarozi si filiere M3-M20 54 piese



	COMPONENTA	
60001410054	54 piese	**1,987.87**
	tarozi set 3 DIN 352 HSS-G: M 3 - M20 filiere DIN 223 B HSS-G: M 3 - M 20 port filiera DIN 225: 20x5 / 20x7 / 25x9 / 30x11 / 38x14 / 45x18 port tarod DIN 1814: Nr. 1 + 3 surubelnita, set lere	

10316070002

Set 5 freze din carbura pentru metal dur prindere 6 mm

- *material: carbura HM*
- *diametru freze: Ø12 mm*
- *prindere: Ø 6 mm*



TIVOLY

FLK 05 | HM CARB | BRIGHT UNCOATED | 05 PCS

	Dimensiune	
10316070002	5 freze din carbura Ø 12 mm Ø 6 mm	**1123.83**

10316070005

Set 10 freze din carbura pentru metal dur prindere 6 mm

- *material: carbura HM*
- *diametru freze: Ø6 mm si Ø12 mm*
- *prindere: Ø 6 mm*



TIVOLY

FLK 10 | HM CARB | BRIGHT UNCOATED | 05 PCS

	Dimensiune	
10316070005	10 freze din carbura Ø 6 mm si Ø 12 mm prindere Ø 6 mm	**1,481.69**

113

Burghie SDS-plus pentru beton cu armatura Booster PLUS

- *varf din carbura monobloc cu autocentrare - pentru gauri precise*
- *ascutirea unghiului: 135º*
- *3 muchii taietoare*
- *spira cu sectiune patrata - pentru o mai buna extractie a prafului*
- *coada compatibila SDS-plus*





booster PLUS

DIAGER

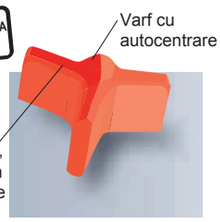
SDS plus · < 5 KG

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 50 x 110					
113D05L0110	5,0	50	110	1	**34,58**
113D06L0110	6,0	50	110	1	**31,44**
113D06.5L0110	6,5	50	110	1	**34,58**
113D07L0110	7,0	50	110	1	**36,15**
113D08L0110	8,0	50	110	1	**33,64**
113D10L0110	10,0	50	110	1	**40,87**
L 100 x 160					
113D05L0160	5,0	100	160	1	**33,32**
113D06L0160	6,0	100	160	1	**32,85**
113D06.5L0160	6,5	100	160	1	**36,62**
113D07L0160	7,0	100	160	1	**40,71**
113D08L0160	8,0	100	160	1	**33,79**
113D10L0160	10,0	100	160	1	**41,02**
113D12L0160	12,0	100	160	1	**50,30**
113D13L0160	13,0	100	160	1	**73,09**
113D14L0160	14,0	100	160	1	**59,26**
113D15L0160	15,0	100	160	1	**70,42**
113D16L0160	16,0	100	160	1	**74,66**
L 150 x 210					
113D06L0210	6,0	150	210	1	**46,37**
113D6.5L0210	6,5	150	210	1	**46,37**
113D07L0210	7,0	150	210	1	**47,94**
113D08L0210	8,0	150	210	1	**47,15**
113D10L0210	10,0	150	210	1	**53,44**
113D12L0210	12,0	150	210	1	**60,51**
113D13L0210	13,0	150	210	1	**69,95**
113D14L0210	14,0	150	210	1	**78,43**
113D15L0210	15,0	150	210	1	**88,81**
113D16L0210	16,0	150	210	1	**93,52**
113D18L0210	18,0	150	210	1	**131,09**
113D20L0210	20,0	150	210	1	**175,26**
L 200 x 260					
113D06L0260	6,0	200	260	1	**50,45**
113D06.5L0260	6,5	200	260	1	**54,38**
113D08L0260	8,0	200	260	1	**46,37**
113D10L0260	10,0	200	260	1	**51,40**
113D12L0260	12,0	200	260	1	**61,46**
113D14L0260	14,0	200	260	1	**75,60**
113D16L0260	16,0	200	260	1	**80,00**
113D18L0260	18,0	200	260	1	**101,54**
113D20L0260	20,0	200	260	1	**124,96**
L 250 x 310					
113D06L0310	6,0	250	310	1	**48,73**
113D06.5L0310	6,5	250	310	1	**48,73**
113D07L0310	7,0	250	310	1	**62,09**
113D08L0310	8,0	250	310	1	**62,09**
113D10L0310	10,0	250	310	1	**68,69**
113D12L0310	12,0	250	310	1	**81,73**
113D13L0310	13,0	250	310	1	**87,24**
113D14L0310	14,0	250	310	1	**95,88**
113D15L0310	15,0	250	310	1	**93,21**
113D16L0310	16,0	250	310	1	**98,24**
113D18L0310	18,0	250	310	1	**149,32**
113D20L0310	20,0	250	310	1	**190,97**
L 400 x 460					
113D10L0460	10,0	400	460	1	**162,37**
113D12L0460	12,0	400	460	1	**178,40**
113D14L0460	14,0	400	460	1	**197,26**
113D15L0460	15,0	400	460	1	**203,55**
113D16L0460	16,0	400	460	1	**209,05**
113D18L0460	18,0	400	460	1	**275,85**
113D20L0460	20,0	400	460	1	**294,71**
L 550 x 610					
113D08L0610	8,0	550	610	1	**163,47**
113D10L0610	10,0	550	610	1	**165,04**
113D12L0610	12,0	550	610	1	**166,61**
113D14L0610	14,0	550	610	1	**210,62**
113D16L0610	16,0	550	610	1	**220,05**
113D18L0610	18,0	550	610	1	**295,50**
113D20L0610	20,0	550	610	1	**337,94**

TEHNOLOGIE CU 3 MUCHII TAIETOARE

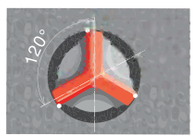
3 puncte de contact

VARF DIN CARBURA MONOBLOC



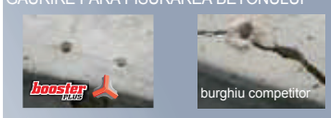
GAURI PERFECTE

Unghiul de 120° garanteaza gauri perfect concentrice (3X120°=360). Booster plus permite gauriri drepte.



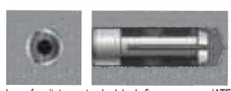
3 puncte de contact simultane permit o performanta constanta in timp.

GAURIRE FARA FISURAREA BETONULUI

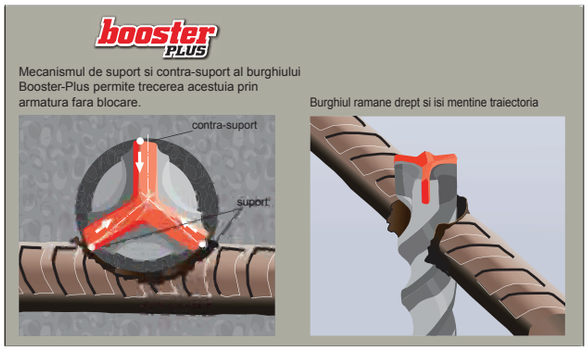


Varful din carbura Booster plus realizeaza gauri curate si perfecte fara fisurarea betonului la gaurirea in apropierea unei margini.

FIXARE OPTIMA



In conformitate cu standardele de fixare europene (ATE)



113

Truse burghie SDS-plus pentru beton cu armatura Booster PLUS



113D



104B



072B



115C

DIAGER

	Dimensiune	Ambalare	
072B	10 piese	1	**662,36**
	L160 : Ø6 (x3)-8(x3)-10(x2)-12-14		
113D	7 piese	1	**427,37**
	L110 : Ø6-8-10 L160 : Ø6-8-10-12		
104B	5 piese	1	**235,77**
	L110 : Ø6-8 L160 : Ø6-8-10		
115C	5 piese	1	**240,01**
	L110 : Ø5 (x2) L160 : Ø6 (x2)-8		

113Y

Burghie SDS-plus pentru beton cu armatura

Cracteristici

- *pastila Monobloc din CMS cu punct de autocentrare*
- *unghi la varf 135°.*
- *3 muchii taietoare (cea mai buna solutie).*
- *canale evacuare segmentate (forma patrata).*
- *compatibl SDS-plus.*

Avantaje

- *3 muchii taietoare monobloc reprezinta cea mai buna solutie ptr gaurire a oricarui tip de beton*
- *varful cu autocentrare garanteaza precizie mai mare.*
- *geometria varfului garanteaza concentricitatea gaurii.*
- *canalele de evacuare segmentate accelereaza extragerea prafului si mareste durata de viata a burghiului.*









	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 50 x 110					
113YD05L0110	5,0	50	110	1	**31,28**
113YD06L0110	6,0	50	110	1	**30,16**
113YD07L0110	7,0	50	110	1	**32,36**
113YD08L0110	8,0	50	110	1	**32,22**
113YD10L0110	10,0	50	110	1	**39,20**
L 100 x 160					
113YD05L0160	5,0	100	160	1	**31,90**
113YD06L0160	6,0	100	160	1	**31,59**
113YD06.5L0160	6,5	100	160	1	**35,08**
113YD07L0160	7,0	100	160	1	**39,05**
113YD08L0160	8,0	100	160	1	**32,38**
113YD10L0160	10,0	100	160	1	**39,36**
113YD12L0160	12,0	100	160	1	**48,25**
113YD13L0160	13,0	100	160	1	**50,08**
113YD14L0160	14,0	100	160	1	**56,82**
113YD16L0160	16,0	100	160	1	**61,49**
L 150 x 210					
113YD06L0210	6,0	150	210	1	**44,44**
113YD06.5L0210	6,5	150	210	1	**44,44**
113YD07L0210	7,0	150	210	1	**45,30**
113YD08L0210	8,0	150	210	1	**45,24**
113YD10L0210	10,0	150	210	1	**51,27**
113YD12L0210	12,0	150	210	1	**58,09**
113YD14L0210	14,0	150	210	1	**75,23**
113YD16L0210	16,0	150	210	1	**89,68**
113YD18L0210	18,0	150	210	1	**125,71**
113YD20L0210	20,0	150	210	1	**168,09**
L 200 x 260					
113YD06L0260	6,0	200	260	1	**48,41**
113YD06.5L0260	6,5	200	260	1	**52,22**
113YD08L0260	8,0	200	260	1	**44,44**
113YD10L0260	10,0	200	260	1	**49,36**
113YD12L0260	12,0	200	260	1	**58,89**
L 250 x 310					
113YD08L0310	8,0	250	310	1	**59,52**
113YD10L0310	10,0	250	310	1	**65,87**
113YD12L0310	12,0	250	310	1	**78,41**
113YD14L0310	14,0	250	310	1	**92,06**
113YD16L0310	16,0	250	310	1	**94,28**
113YD18L0310	18,0	250	310	1	**143,33**
113YD20L0310	20,0	250	310	1	**183,16**
L 400 x 460					
113YD08L0460	8,0	400	460	1	**153,17**
113YD10L0460	10,0	400	460	1	**155,71**
113YD12L0460	12,0	400	460	1	**171,10**
113YD14L0460	14,0	400	460	1	**189,20**
113YD16L0460	16,0	400	460	1	**200,62**
113YD18L0460	18,0	400	460	1	**264,59**
113YD20L0460	20,0	400	460	1	**282,68**
L 550 x 610					
113YD10L0610	6,0	550	610	1	**199,56**

110

Burghie SDS-plus pentru beton Twister PLUS

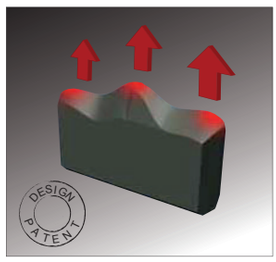
- *varf din carbura, cu autocentrare*
- *unghi la varf: 160°*
- *spira cu sectiune patrata*
- *coada compatibila SDS-plus*







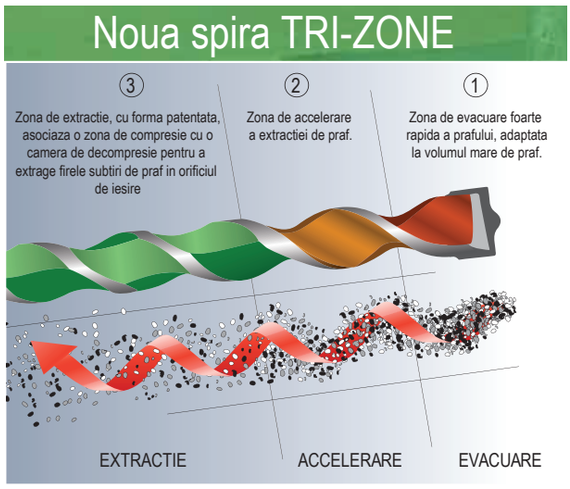






	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 50 x 110					
110D04L0110	4,0	50	110	1	**12,73**
110D05L0110	5,0	50	110	1	**14,77**
110D05.5L0110	5,5	50	110	1	**15,72**
110D06L0110	6,0	50	110	1	**12,73**
110D06.5L0110	6,5	50	110	1	**15,72**
110D07L0110	7,0	50	110	1	**15,72**
110D08L0110	8,0	50	110	1	**14,93**
110D10L0110	10,0	50	110	1	**16,82**
L 100 x 160					
110D04L0160	4,0	100	160	1	**13,67**
110D05L0160	5,0	100	160	1	**13,67**
110D05.5L0160	5,5	100	160	1	**17,92**
110D06L0160	6,0	100	160	1	**13,67**
110D06.5L0160	6,5	100	160	1	**16,98**
110D07L0160	7,0	100	160	1	**17,45**
110D08L0160	8,0	100	160	1	**15,72**
110D09L0160	9,0	100	160	1	**20,43**
110D10L0160	10,0	100	160	1	**18,23**
110D11L0160	11,0	100	160	1	**23,58**
110D12L0160	12,0	100	160	1	**23,73**
110D13L0160	13,0	100	160	1	**37,72**
110D14L0160	14,0	100	160	1	**33,79**
110D15L0160	15,0	100	160	1	**48,73**
110D16L0160	16,0	100	160	1	**48,73**
L 150 x 210					
110D05L0210	5,0	150	210	1	**22,95**
110D06L0210	6,0	150	210	1	**17,76**
110D06.5L0210	6,5	150	210	1	**18,70**
110D07L0210	7,0	150	210	1	**22,95**
110D08L0210	8,0	150	210	1	**19,02**
110D09L0210	9,0	150	210	1	**25,62**
110D10L0210	10,0	150	210	1	**22,32**
110D11L0210	11,0	150	210	1	**28,76**
110D12L0210	12,0	150	210	1	**33,48**
110D13L0210	13,0	150	210	1	**40,08**
110D14L0210	14,0	150	210	1	**35,37**
110D15L0210	15,0	150	210	1	**50,30**
110D16L0210	16,0	150	210	1	**50,93**
110D18L0210	18,0	150	210	1	**67,59**
110D20L0210	20,0	150	210	1	**83,31**
110D22L0210	22,0	150	210	1	**122,60**
110D24L0210	24,0	150	210	1	**146,18**
110D25L0210	25,0	150	210	1	**155,61**
L 200 x 260					
110D06L0260	6,0	200	260	1	**22,48**
110D06.5L0260	6,5	200	260	1	**23,11**
110D07L0260	7,0	200	260	1	**36,78**
110D08L0260	8,0	200	260	1	**23,89**
110D10L0260	10,0	200	260	1	**30,34**
110D12L0260	12,0	200	260	1	**36,15**
110D13L0260	13,0	200	260	1	**42,44**
110D14L0260	14,0	200	260	1	**42,28**
110D15L0260	15,0	200	260	1	**56,58**
110D16L0260	16,0	200	260	1	**57,06**
110D18L0260	18,0	200	260	1	**70,73**
110D20L0260	20,0	200	260	1	**89,75**
110D22L0260	22,0	200	260	1	**131,25**
110D24L0260	24,0	200	260	1	**168,18**
110D25L0260	25,0	200	260	1	**181,07**

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 250 x 310					
110D05L0310	5,0	250	310	1	**37,41**
110D06L0310	6,0	250	310	1	**44,95**
110D08L0310	8,0	250	310	1	**40,24**
110D10L0310	10,0	250	310	1	**41,97**
110D11L0310	11,0	250	310	1	**46,37**
110D12L0310	12,0	250	310	1	**54,70**
110D13L0310	13,0	250	310	1	**56,58**
110D14L0310	14,0	250	310	1	**61,61**
110D15L0310	15,0	250	310	1	**66,02**
110D16L0310	16,0	250	310	1	**68,84**
110D18L0310	18,0	250	310	1	**94,31**
110D20L0310	20,0	250	310	1	**91,48**
110D22L0310	22,0	250	310	1	**111,76**
110D24L0310	24,0	250	310	1	**191,60**
110D25L0310	25,0	250	310	1	**218,80**
110D26L0310	26,0	250	310	1	**260,29**
110D28L0310	28,0	250	310	1	**357,59**
L 350 x 410					
110D08L0410	8,0	350	410	1	**67,59**
110D10L0410	10,0	350	410	1	**56,74**
110D12L0410	12,0	350	410	1	**67,59**
110D13L0410	13,0	350	410	1	**75,45**
110D14L0410	14,0	350	410	1	**75,45**
110D16L0410	16,0	350	410	1	**75,45**
110D18L0410	18,0	350	410	1	**109,24**
110D20L0410	20,0	350	410	1	**137,53**
110D22L0410	22,0	350	410	1	**165,67**
110D24L0410	24,0	350	410	1	**214,71**
110D25L0410	25,0	350	410	1	**261,86**
L 400 x 460					
110D06L0460	6,0	400	460	1	**59,73**
110D08L0460	8,0	400	460	1	**57,21**
110D10L0460	10,0	400	460	1	**63,82**
110D12L0460	12,0	400	460	1	**63,97**
110D14L0460	14,0	400	460	1	**74,82**
110D16L0460	16,0	400	460	1	**82,68**
110D18L0460	18,0	400	460	1	**96,04**
110D20L0460	20,0	400	460	1	**106,10**
110D22L0460	22,0	400	460	1	**129,52**
110D24L0460	24,0	400	460	1	**153,88**
110D25L0460	25,0	400	460	1	**163,47**
110D26L0460	26,0	400	460	1	**172,90**
110D28L0460	28,0	400	460	1	**207,48**
110D30L0460	30,0	400	460	1	**397,42**
L 550 x 610					
110D08L0610	8,0	550	610	1	**86,45**
110D10L0610	10,0	550	610	1	**88,02**
110D12L0610	12,0	550	610	1	**90,06**
110D14L0610	14,0	550	610	1	**97,45**
110D16L0610	16,0	550	610	1	**108,45**
110D18L0610	18,0	550	610	1	**139,10**
110D20L0610	20,0	550	610	1	**179,19**
110D22L0610	22,0	550	610	1	**224,77**
110D24L0610	24,0	550	610	1	**256,20**
110D25L0610	25,0	550	610	1	**298,64**
110D26L0610	26,0	550	610	1	**305,56**
L 940 x 1000					
110D08L1000	8,0	940	1000	1	**321,43**
110D10L1000	10,0	940	1000	1	**321,43**
110D12L1000	12,0	940	1000	1	**321,43**
110D14L1000	14,0	940	1000	1	**339,51**
110D16L1000	16,0	940	1000	1	**381,16**
110D18L1000	18,0	940	1000	1	**454,25**
110D20L1000	20,0	940	1000	1	**507,69**
110D22L1000	22,0	940	1000	1	**634,22**
110D25L1000	25,0	940	1000	1	**695,52**



118Y

Burghie SDS-plus pentru beton

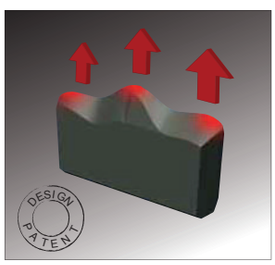
Caracteristici

- *pastila CMS cu geometrie optimizata:*
  - *varf de centrare cu geometrie "Z"*
  - *profil cu 3 puncte efective de sprijin*
- *canalul de evacuare in 2 forme distincte: semi-rotund / patrat.*
- *compatibl SDS-plus.*

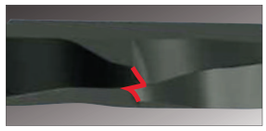
Avantaje

- *cele 3 Punctele de presiune actioneaza coliniar cu axa de gaurire, crescand astfel puterea si viteză de avans*
- *varful optimizat imbunatateste performanta de penetrare si centrare prin efectul de daltuire .*
- *canalele de evacuare segmentate accelereaza extragerea prafului si mareste durata de viata a burghiului.*
- *noul Twister este mai rapid si mentine perfomanta marita pe o perioada lunga de timp*









USH GERMANY

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 50x110					
118YD04L0110	4,0	50	110	1	**12,22**
118YD05L0110	5,0	50	110	1	**14,13**
118YD06L0110	6,0	50	110	1	**12,22**
118YD08L0110	8,0	50	110	1	**14,28**
118YD10L0110	10,0	50	110	1	**16,19**
L 100x160					
118YD05L0160	5,0	100	160	1	**13,17**
118YD06L0160	6,0	100	160	1	**13,17**
118YD06.5L0160	6,5	100	160	1	**16,35**
118YD07L0160	7,0	100	160	1	**16,67**
118YD08L0160	8,0	100	160	1	**15,08**
118YD10L0160	10,0	100	160	1	**17,46**
118YD12L0160	12,0	100	160	1	**22,70**
118YD14L0160	14,0	100	160	1	**32,38**
118YD16L0160	16,0	100	160	1	**46,82**
L 150x210					
118YD06L0210	6,0	150	210	1	**16,98**
118YD06.5L0210	6,5	150	210	1	**17,94**
118YD08L0210	8,0	150	210	1	**18,25**
118YD10L0210	10,0	150	210	1	**21,27**
118YD12L0210	12,0	150	210	1	**32,06**
118YD14L0210	14,0	150	210	1	**33,97**
118YD16L0210	16,0	150	210	1	**48,89**
118YD18L0210	18,0	150	210	1	**64,92**
118YD20L0210	20,0	150	210	1	**80,00**
L 200x260					
118YD06L0260	6,0	200	260	1	**21,43**
118YD06.5L0260	6,5	200	260	1	**22,22**
118YD08L0260	8,0	200	260	1	**22,86**
118YD10L0260	10,0	200	260	1	**29,05**
118YD12L0260	12,0	200	260	1	**34,76**
118YD14L0260	14,0	200	260	1	**40,63**
118YD15L0260	15,0	200	260	1	**54,28**
118YD16L0260	16,0	200	260	1	**54,76**
118YD18L0260	18,0	200	260	1	**67,93**
118YD20L0260	20,0	200	260	1	**86,03**
L 250x310					
118YD08L0310	8,0	250	310	1	**38,57**
118YD10L0310	10,0	250	310	1	**40,32**
118YD12L0310	12,0	250	310	1	**52,54**
118YD14L0310	14,0	250	310	1	**59,04**
118YD16L0310	16,0	250	310	1	**66,03**
118YD18L0310	18,0	250	310	1	**90,47**
118YD20L0310	20,0	250	310	1	**87,77**

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 350 x 410	8,0	350	410	1	**66,09**
118YD08L0410					
L 400 x 460					
118YD08L0460	8,0	400	460	1	**54,92**
118YD10L0460	10,0	400	460	1	**61,27**
118YD12L0460	12,0	400	460	1	**61,43**
118YD14L0460	14,0	400	460	1	**71,74**
118YD16L0460	16,0	400	460	1	**79,36**
118YD18L0460	18,0	400	460	1	**92,06**
118YD20L0460	20,0	400	460	1	**101,74**
118YD22L0460	22,0	400	460	1	**124,28**
L 550 x 610					
118YD14L0610	14,0	550	610	1	**93,49**
118YD16L0610	16,0	550	610	1	**104,12**
118YD18L0610	18,0	550	610	1	**158,10**
118YD20L0610	20,0	550	610	1	**171,90**

110

Truse burghie SDS-plus pentru beton Twister PLUS



116D

105D



102C

136C

100C

	Dimensiune	Ambalare	
116D	10 piese	1	**311,69**
	L110 Ø5-6-8 L160Ø6(x2)-8(x2)-10-12-14		
105D	7 piese	1	**220,05**
	L110 Ø5-6-8 L160Ø6-8-10-12		
102C	7 piese	1	**172,90**
	L110 Ø5-6-8 L160Ø6-8-10-12		
136C	5 piese	1	**133,76**
	L110 Ø6-8 L160Ø6-8-10		
100C	4 piese	1	**92,42**
	L160Ø5-6-8-10		



104

Burghie SDS-plus pentru boltari si caramida Porotherm

- *ascutire varf 130°*
- *zona evacuare scurta*
- *pas spira lung*
- *percutie redusa*
- *ideal pentru boltari*
- *micropercutia asigura gaurirea peretilor subtiri fara spargerea acestora*
- *mareste puterea de ancorare*
- *forma spirei permite evacuarea usoara la gaurirea materialelor de izolare*





	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 100 x 160					
104D05L0160	5,0	100	160	1	**39,91**
104D06L0160	6,0	100	160	1	**41,14**
104D08L0160	8,0	100	160	1	**42,38**
104D10L0160	10,0	100	160	1	**45,92**
L 200 x 260					
104D06L0260	6,0	200	260	1	**58,56**
104D08L0260	8,0	200	260	1	**60,10**
104D10L0260	10,0	200	260	1	**61,49**
104D12L0260	12,0	200	260	1	**64,10**
104D14L0260	14,0	200	260	1	**73,81**
104D16L0260	16,0	200	260	1	**79,98**
L 400 x 460					
104D08L0460	8,0	400	460	1	**83,06**
104D10L0460	10,0	400	460	1	**90,46**

TEST COMPARATIV: GAURIRE SI ANCORARE IN BOLTARI



Gaurire
Peretele este deteriorat, grosimea ramane de doar 7 mm.
Testarea ruperii pentru ancora chimica
Ancora cedeaza imediat.
Cedeaza la 250 kg



Gaurire
Peretele este intact si isi pastreaza grosimea initiala de 16 mm.
Testarea ruperii pentru fixarea chimica
Fixarea rezista perfect. Peretele cedeaza primul.
Cedeaza la 700 kg

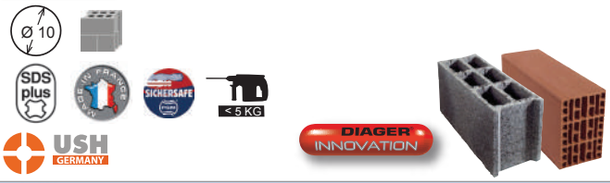
Teste realizate cu o masina SDS + GBH 2 cu percutie in bloc de beton gol, cu ancora chimica.

117Y

Burghie SDS-plus pentru boltari si caramida Porotherm

- *ascutire varf 130°*
- *zona evacuare scurta*
- *pas spira lung*
- *percutie redusa*
- *ideal pentru boltari*
- *micropercutia asigura gaurirea peretilor subtiri fara spargerea acestora*
- *mareste puterea de ancorare*
- *forma spirei permite evacuarea usoara la gaurirea materialelor de izolare*



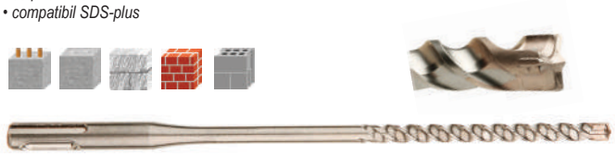


	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 200 x 260					
117YD06L0260	6,0	200	260	1	**46,65**
117YD08L0260	8,0	200	260	1	**47,85**
117YD10L0260	10,0	200	260	1	**49,59**
117YD12L0260	12,0	200	260	1	**59,75**
117YD14L0260	14,0	200	260	1	**73,78**
117YD16L0260	16,0	200	260	1	**82,87**
L 400 x 460					
117YD08L0460	8,0	400	460	1	**78,90**
117YD10L0460	10,0	400	460	1	**85,94**

102

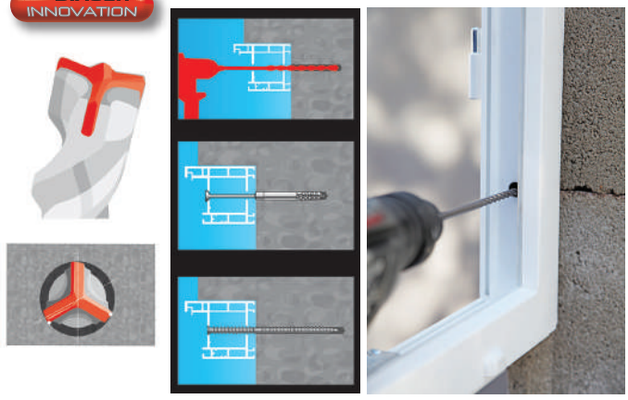
Burghie SDS-plus pentru instalare tocuri de termopan

- *varf din carbura monobloc, cu autocentrare pentru realizarea unor gauri precise*
- *ascutirea unghiului: 135°*
- *3 muchii de taiere*
- *spira cu sectiune patrata - pentru o mai buna eliminare a prafului*
- *corp ranforsat*
- *compatibil SDS-plus*



Ø 10

DIAGER INNOVATION





DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 150 x 210					
102D06L0210	6,0	150	210	1	**58,94**
102D06.5L0210	6,5	150	210	1	**58,79**
L 550 x 610					
102D06L0260	6,0	200	260	1	**59,73**
102D06.5L0260	6,5	200	260	1	**62,09**

108

Burghie SDS-plus cu limitator de adancime

- *varf carbura monobloc cu autocentrare*
- *unghiul varfului 135°*
- *3 muchii de taiere*
- *spira semirotunda*
- *limitator al adancimii de gaurire*
- *compatibil SDS-plus*
- *limitarea adancimii de gaurire permite controlul precis asupra gauririi repetitive*
- *varf din carbura monobloc cu trei muchii taietoare pentru toate tipurile de beton, inclusiv beton armat.*
- *aplicatii: instalarea de scaune de stadion, suporturi de cablu, sistem de ventilatie ...*

Ø 10



DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
108D08L0027	8,0	27	27	1	**La cerere**
108D10L0033	10,0	33	33	1	**La cerere**
108D12L0043	12,0	43	43	1	**La cerere**
108D15L0052	15,0	52	52	1	**La cerere**
108D15L0054	15,0	54	54	1	**La cerere**

184

Burghie SDS-plus pentru granit

- *varf cu profil special pentru gaurirea granitului*
- *spira cu profil L*
- *compatibil SDS-plus*
- *ideal pentru gaurirea granitului clasa 1 si 3*





Ø 10

DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 50 x 110					
184D03L0085	3,0	50	85	1	**52,50**
184D04L0110	4,0	50	110	1	**46,68**
184D05L0110	5,0	50	110	1	**38,35**
184D06L0110	6,0	50	110	1	**38,35**
184D08L0110	8,0	50	110	1	**42,44**
184D10L0110	10,0	50	110	1	**48,10**
L 100 x 160					
184D04L0160	4,0	100	160	1	**49,51**
184D05L0160	5,0	100	160	1	**43,85**
184D06L0160	6,0	100	160	1	**41,34**
184D07L0160	7,0	100	160	1	**43,70**
184D08L0160	8,0	100	160	1	**45,43**
184D10L0160	10,0	100	160	1	**52,50**
184D12L0160	12,0	10	160	1	**60,83**

168

Burghie SDS-max ULTIMAX

- *3 varfuri din carbura cu punct de autocentrare*
- *6 muchii taietoare*
- *spira progresiva*
- *compatibil SDS-max*
- *asigura gauri perfect rotunde si calibrate*
- *timp de utilizare indelungat*
- *previne riscul blocarii*





Ø 18

ULTIMAX

DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 200 x 340					
168D12L0340	12,0*	200	340	1	**176,04**
168D14L0340	14,0*	200	340	1	**168,97**
168D15L0340	15,0	200	340	1	**206,06**
168D16L0340	16,0	200	340	1	**206,06**
168D18L0340	18,0	200	340	1	**213,45**
168D20L0340	20,0	200	340	1	**209,68**
168D22L0340	22,0	200	340	1	**225,40**
168D24L0340	24,0	200	340	1	**245,20**
168D25L0340	25,0	200	340	1	**274,28**
168D26L0340	26,0	200	340	1	**295,50**
168D28L0340	28,0	200	340	1	**326,94**
168D30L0340	30,0	200	340	1	**353,66**
168D32L0340	32,0	200	340	1	**385,09**
168D35L0340	35,0	200	340	1	**413,38**
168D45L0340	45,0	200	340	1	**911,65**
L 400 x 540					
168D12L0540	12	400	540	1	**192,07**
168D14L0540	14	400	540	1	**205,28**
168D16L0540	16	400	540	1	**212,51**
168D18L0540	18	400	540	1	**226,34**
168D20L0540	20	400	540	1	**251,33**
168D22L0540	22	400	540	1	**275,85**
168D24L0540	24	400	540	1	**302,10**
168D25L0540	25	400	540	1	**292,36**
168D26L0540	26	400	540	1	**328,19**
168D28L0540	28	400	540	1	**315,15**
168D30L0540	30	400	540	1	**370,00**
168D32L0540	32	400	540	1	**416,53**
168D35L0540	35	400	540	1	**408,35**

** o singura pastila in varf*

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
168D36L0540	36	400	540	1	**613,00**
168D38L0540	38	400	540	1	**785,90**
168D40L0540	40	400	540	1	**726,33**
168D42L0540	42	400	540	1	**1100,26**
168D45L0540	45	400	540	1	**927,84**
L 550 x 690					
168D16L0690	16	550	690	1	**254,63**
168D18L0690	18	550	690	1	**290,78**
168D20L0690	20	550	690	1	**312,79**
168D22L0690	22	550	690	1	**314,20**
168D24L0690	24	550	690	1	**337,94**
168D25L0690	25	550	690	1	**355,23**
168D26L0690	26	550	690	1	**374,09**
168D28L0690	28	550	690	1	**481,76**
168D30L0690	30	550	690	1	**556,42**
168D32L0690	32	550	690	1	**611,43**
168D35L0690	35	550	690	1	**613,00**
168D36L0690	36	550	690	1	**660,16**
168D38L0690	38	550	690	1	**943,08**
168D40L0690	40	550	690	1	**943,08**
168D42L0690	42	550	690	1	**1178,85**
168D45L0690	45	550	690	1	**1257,44**
L 780 x 980					
168D16L0920	16	780	920	1	**314,36**
168D18L0920	18	780	920	1	**345,80**
168D20L0920	20	780	920	1	**440,10**
168D22L0920	22	780	920	1	**368,75**
168D24L0920	24	780	920	1	**402,38**
168D25L0920	25	780	920	1	**416,53**
168D28L0920	28	780	920	1	**580,00**
168D30L0920	30	780	920	1	**662,52**
168D32L0920	32	780	920	1	**713,13**
168D35L0920	35	780	920	1	**860,56**
168D36L0920	36	780	920	1	**943,08**
168D40L0920	40	780	920	1	**1010,20**
168D42L0920	42	780	920	1	**1336,03**
168D45L0920	45	780	920	1	**1414,62**
L 1160 x 1300					
168D20L1300	20	1160	1300	1	**628,72**
168D22L1300	22	1160	1300	1	**660,16**
168D28L1300	28	1160	1300	1	**1100,26**
168D32L1300	32	1160	1300	1	**1255,40**
L 1360 x 1500					
168D20L1500	20	1360	1500	1	**785,90**
168D25L1500	25	1360	1500	1	**1100,26**
168D28L1500	28	1360	1500	1	**1257,44**
168D32L1500	32	1360	1500	1	**1414,62**
168D40L1500	40	1360	1500	1	**2043,34**
168D42L1500	42	1360	1500	1	**1886,16**
168D45L1500	45	1360	1500	1	**2357,70**

166Y

Burghie SDS-max

Caracteristici

- *3 varfuri CMS cu autocentrare.*
- *6 muchii taietoare.*
- *canale de evacuare progresive .*
- *compatibil SDS-max.*

Avantaje

- *gaura perfect rotunda garantata*
- *durata de viata prelungita.*
- *elimina riscul de blocare*







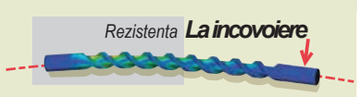
Ø 18

USH GERMANY

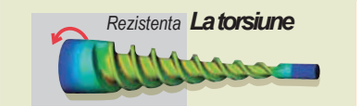
> 5 KG

SDS max

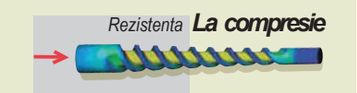
	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 200x340					
166YD16L0340	16,0	200	340	1	**197,61**
166YD18L0340	18,0	200	340	1	**204,75**
166YD20L0340	20,0	200	340	1	**201,10**
L 400x540					
166YD16L0540	16,0	400	540	1	**203,80**
166YD18L0540	18,0	400	540	1	**217,13**
166YD20L0540	20,0	400	540	1	**241,10**
166YD22L0540	22,0	400	540	1	**264,59**
166YD24L0540	24,0	400	540	1	**289,83**
166YD25L0540	25,0	400	540	1	**280,46**
166YD26L0540	26,0	400	540	1	**314,90**
166YD28L0540	28,0	400	540	1	**302,36**
166YD30L0540	30,0	400	540	1	**354,90**
166YD32L0540	32,0	400	540	1	**438,39**
166YD35L0540	35,0	400	540	1	**391,72**
166YD36L0540	36,0	400	540	1	**599,48**
166YD40L0540	40,0	400	540	1	**710,31**
166YD42L0540	42,0	400	540	1	**1055,50**
166YD45L0540	45,0	400	540	1	**1313,23**



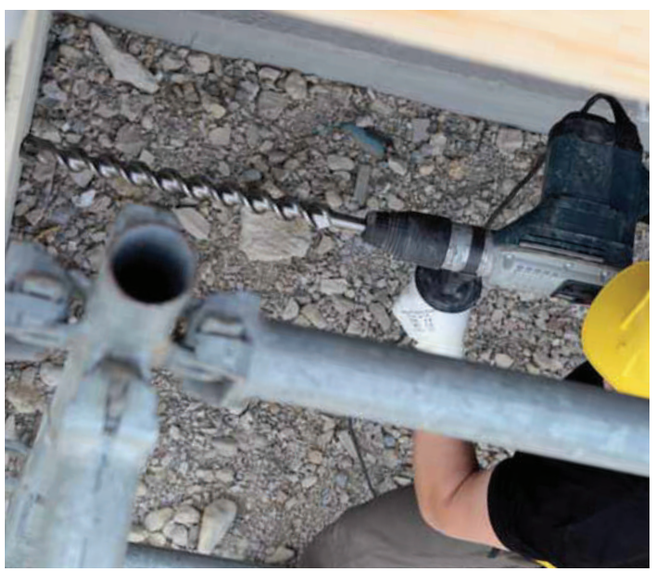
Forta de incovoiere exercitata in partea de jos a unui burghiu este probabil factorul cel mai distructiv. Miezul progresiv al spiralei ajuta le evacuarea materialului si creste rigiditatea acestei zone, care este supusa la presiuni extreme.



6 muchii de taiere asimetrice reduce riscul de blocarej in timpul utilizarii pe un utilaj deosebit de greu, sau in armatura. Miezul progresiv si rotunjimea spirei permite indepartarea optima a prafului si elimina riscul de blocare din cauza acumularii de praf.



Duritatea betonului combinata cu puterea de gaurire creaza un efect de compresie. Tratamentul termic al corpului permite ca energia burghiului sa fie concentrata pe varful carbura de tungsten (care absoarbe undele de soc in acelasi timp)



161

Burghie SDS-max pentru beton cu sistem de aspiratie a prafului

> 5 KG

SDS max

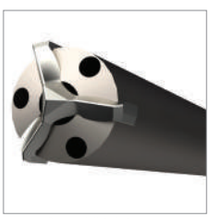
Caracteristici
- *2 gauri largi de aspiratie a prafului*
- *mansonul de conectare la aspirator*
- *sistem cap masiv, carbura 100%, 10 taietori, varf de auto-centrare*

Beneficii
- *lucru fara praf*
- *operatorii lucreaza fara riscuri pentru sanatatea lor*
- *gaurirea si curatarea gaurilor si curatarea locului de lucru intr-o singură etapa*
- *economie de timp pentru gaurirea, fixarea si curtarea locului de muna si o mai buna profitabilitate*
- *curatarea perfecta a orificiului pentru o rezistenta foarte buna la fixare.*
- *evacuarea prafului in timpul forarii imbunatateste durata de viata a burghiului*

Aplicatii
- *beton armat, beton (umed sau vechi), piatra, blocuri de zidarie, caramida, var.*
- *conexiuni in parti structurale (poduri, tuneluri, renovari sau imbunatatiri la cadrul ferestrelor)*
- *gaurirea in incaperi inchise, spatii curate, spitale, laboratoare*

SPEEDUSTER 645





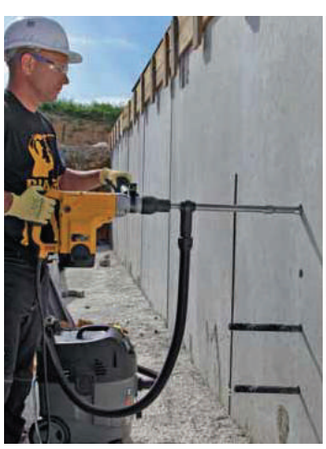
3 muchii taietoare:
Ø 14-16-18-20 mm



sistem cap masiv:
Ø 22-25-28-30-32-35 mm

DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
161D14L0610	14	400	610	1	**977,23**
161D16L0610	16	400	610	1	**984,53**
161D18L0610	18	400	610	1	**998,14**
161D20L0610	20	400	610	1	**1014,83**
161D22L0610	22	400	610	1	**1032,86**
161D25L0610	25	400	610	1	**1061,30**
161D28L0610	28	400	610	1	**1123,02**
161D30L0610	30	400	610	1	**1175,75**
161D32L0610	32	400	610	1	**1215,95**
161D35L0610	35	400	610	1	**1309,92**





MENTINE LOCUL DE MUNCA CURAT



Burghiul de aspiratie SPEEDUSTER permite aspirarea prafului generat in timpul gauririi. Santierul se mentine curat, nu trebuie sa pierzi timpul! Echipamentul este protejat de praf si rezista mai mult.

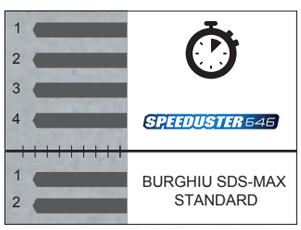
ASIGURA PROTECTIE



Operatorii sunt protejati impotriva riscurilor cauzate de praf. Sanatatea lor este respectata. Munca lor este mai putin dureroasa. Articolul L. 231-1 din Codul muncii stabileste valoarea medie a expunerii pentru silicate sub forma de cuart (praf respirabil) la 0,1 mg / m³ timp de 8 ore de lucru.

GAURIRE ULTRA RAPIDA

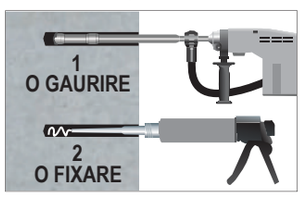
GAURESTE DE 2X MAI REPEDE



Burghiul de aspiratie SPEEDUSTER face 4 gauri la 2 pentru un burghiu standard SDS-MAX

PRODUCTIVITATE

FIXARE DOAR IN 2 ETAPE



Gaurirea si curatarea se realizeaza intr-o singura etapa o singura etapa. Rezistenta diblurilor chimice beneficiaza de fixare marita de zece ori datorita gaurilor perfect curate. Exista o economie reala de timp si o rentabilitate sporita in santiere

166

Burghie SDS-max pentru beton

> 5 KG

SDS max

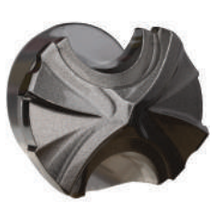
Caracteristici
- *2 gauri largi de aspiratie a prafului*
- *mansonul de conectare la aspirator*
- *sistem cap masiv, carbura 100%, 10 taietori, varf de auto-centrare*

Beneficii
- *lucru fara praf*
- *operatorii lucreaza fara riscuri pentru sanatatea lor*
- *gaurirea si curatarea gaurilor si curatarea locului de lucru intr-o singură etapa*
- *economie de timp pentru gaurirea, fixarea si curtarea locului de muna si o mai buna profitabilitate*
- *curatarea perfecta a orificiului pentru o rezistenta foarte buna la fixare.*
- *evacuarea prafului in timpul forarii imbunatateste durata de viata a burghiului*

Aplicatii
- *beton armat, beton (umed sau vechi), piatra, blocuri de zidarie, caramida, var.*
- *conexiuni in parti structurale (poduri, tuneluri, renovari sau imbunatatiri la cadrul ferestrelor)*
- *gaurirea in incaperi inchise, spatii curate, spitale, laboratoare*

ULTIMAX 645













DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 200 x 340					
166D22L0340Q	22	200	340	1	**225,40**
166D24L0340Q	24	200	340	1	**245,20**
166D25L0340Q	25	200	340	1	**274,28**
166D26L0340Q	26	200	340	1	**295,50**
166D28L0340Q	28	200	340	1	**326,94**
166D30L0340Q	30	200	340	1	**353,66**
166D32L0340Q	32	200	340	1	**385,09**
166D35L0340Q	35	200	340	1	**413,38**
166D36L0340Q	36	200	340	1	**582,80**
166D38L0340Q	38	200	340	1	**667,55**
166D40L0340Q	40	200	340	1	**708,54**
166D42L0340Q	42	200	340	1	**881,90**
166D45L0340Q	45	200	340	1	**911,65**
L 400 x 540					
166D22L0540Q	22	400	540	1	**275,85**
166D24L0540Q	24	400	540	1	**302,10**
166D25L0540Q	25	400	540	1	**292,36**
166D26L0540Q	26	400	540	1	**328,19**
166D28L0540Q	28	400	540	1	**315,15**
166D30L0540Q	30	400	540	1	**370,00**
166D32L0540Q	32	400	540	1	**416,53**
166D35L0540Q	35	400	540	1	**408,35**
166D36L0540Q	36	400	540	1	**613,00**
166D38L0540Q	38	400	540	1	**785,90**
166D40L0540Q	40	400	540	1	**726,33**
166D42L0540Q	42	400	540	1	**1100,26**
166D45L0540Q	45	400	540	1	**927,84**
L 550 x 690					
166D22L0690Q	22	550	690	1	**314,20**
166D24L0690Q	24	550	690	1	**337,94**
166D25L0690Q	25	550	690	1	**355,23**
166D26L0690Q	26	550	690	1	**374,09**
166D28L0690Q	28	550	690	1	**481,76**
166D30L0690Q	30	550	690	1	**556,42**
166D32L0690Q	32	550	690	1	**611,43**
166D35L0690Q	35	550	690	1	**613,00**
166D36L0690Q	36	550	690	1	**660,16**
166D38L0690Q	38	550	690	1	**943,08**
166D40L0690Q	40	550	690	1	**943,08**
166D42L0690Q	42	550	690	1	**1178,85**
166D45L0690Q	45	550	690	1	**1257,44**
L 780 x 920					
166D22L0920Q	22	780	920	1	**368,75**
166D24L0920Q	24	780	920	1	**402,38**
166D25L0920Q	25	780	920	1	**416,53**
166D26L0920Q	26	780	920	1	**508,37**
166D28L0920Q	28	780	920	1	**580,00**
166D30L0920Q	30	780	920	1	**662,52**
166D32L0920Q	32	780	920	1	**713,13**
166D35L0920Q	35	780	920	1	**860,56**
166D36L0920Q	36	780	920	1	**943,08**
166D40L0920Q	40	780	920	1	**1010,20**
166D42L0920Q	42	780	920	1	**1336,03**
166D45L0920Q	45	780	920	1	**1414,62**

174

Burghiu pentru pamant SDS-MAX GroundMAX

solul este un material liber dar si dens in acelasi timp este de fapt un material care trebuie gaurit si apoi evacuat si care este foarte diferit de beton sau piatra



Caracteristici si Beneficii

- *130° unghi - pozitiv*
- *capul din carbura este special construit pentru a evita spargerea / deteriorarea lui atunci cand intalneste minerale agregate/piatra in sol.*
- *capul este subtire si bine inserat in corpul burghiului. Acest aspect ii confera o mai buna protectie.*
- *in plus permite astfel o mai mare sectiune de evacuare a solului dupa perforare.*
- *capul bine protejat confera o mai mare durabilitate*
- *capul are 2 puncte de taiere/doua taisuri*
- *capul este brazat cu cupru pe corpul burghiului.*
- *carbura metalica este fabricata: Made in Europe*



Cap din carbura metalica (VIDIA) robust si rezistent



Spirala specifica/speciala pentru extractie sol



PrindereSDS-Max

- *suprafata de evacuare rotunjita (Half-round) adanca*
- *pas de evacuare optimizat*
- *margine exterioara subtire pentru a diminua frecarea/uzura si a mari sectiunea de evacuare*
- *sectiunea mare de evacuare*
- *suprafata de evacuare fragmentata pentru a evita lipirea solului umed/noroi*
- *suprafata de evacuare realizata prin frezare si ulterior finisata prin sablare*
- *se reduce la minim rezistenta solului la forare:*
  imbunatateste penetrarea/forarea solului
  mareste viteza de extractie dupa forare







DIAGER

SICHERSAFE

> 5 KG

SDS max

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
174D18L0540	18,0		540	1	**316,68**
174D18L0940	18,0		940	1	**439,95**

165

Burghie SDS-max de strapungere pentru beton

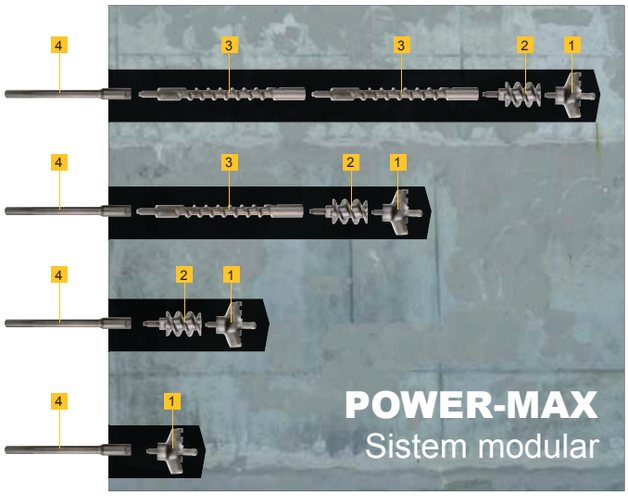
- *cap din carbura cu burghiu de centrare*
- *spira dubla adanca filetata in partea frontala a burghiului*
- *compatibil SDS-max*
- *diametre intre 45 si 80 mm*
- *gauri concentrice si calibrate*





DIAGER CROSSER > 5 KG

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
L 450 x 590					
165D45L0590	45,0	450	590	1	**1257,44**
165D55L0590	55,0	450	590	1	**1346,88**
165D65L0590	65,0	450	590	1	**1508,93**
165D80L0590	80,0	450	590	1	**1807,57**
L 780 x 990					
165D45L0990	45,0	780	990	1	**1414,62**
165D55L0990	55,0	780	990	1	**1503,43**
165D65L0990	65,0	780	990	1	**1650,39**
165D80L0990	80,0	780	990	1	**1964,75**

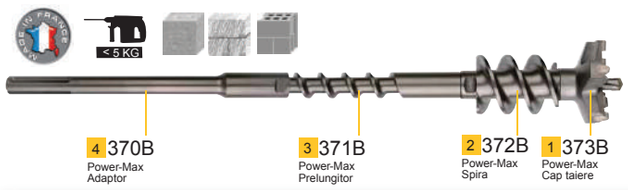


POWER-MAX

- *sistem modular reglabil pentru realizarea de gauri mai adanci de 1 m*
- *posibilitate de montare capete de gaurire Ø32-80 mm si carote cu placute din carbura Ø30-125 mm*
- *cap cu placute din carbura si burghiu de centrare cu 2 muchii taietoare*

Indicatii:

- *finalizati asamblarea cu ajutorul unei chei*
- *lubrifiati regulat filetele ansamblului*
- *montati arcul (inclus) in partea mama (sistemul de blocare)*



376B

Adaptor pentru carotiere Power-Max

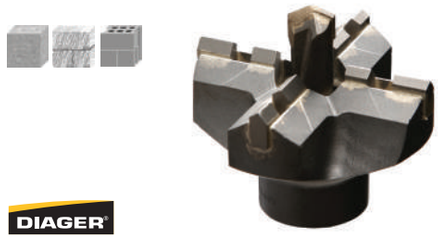


DIAGER < 5 KG

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
376B	26,0	-	90	1	**395,94**

373B 1

Cap de taiere cu varf de centrare Power-Max



DIAGER > 5 KG

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
373BD32	32,0	-	43	1	**748,65**
373BD44	44,0	-	43	1	**821,11**
373BD52	52,0	-	43	1	**927,84**
373BD60	60,0	-	43	1	**1087,85**
373BD66	66,0	-	43	1	**1255,71**
373BD80	80,0	-	43	1	**1485,04**

372B 2

Spira Power-Max



DIAGER > 5 KG

	Dimensiune	Utilizare	Lungime totala	Ambalare	
372BD40	40,0	Ø44-52	180	1	**615,83**
372BD55	55,0	Ø60-80	90	1	**1122,42**

371B 3

Prelungitor, racord cu filet si arc Power-Max



DIAGER > 5 KG

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
371BD0280	14,0	-	280	1	**503,76**

370B 4

Adaptor Power-Max



DIAGER > 5 KG

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
370BD0250	14,0	-	250	1	**402,54**
370BD0450	14,0	-	450	1	**693,32**
370BD0850	14,0	-	850	1	**1247,70**

374B

Burghiu de centrare Power-Max



DIAGER > 5 KG

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
374B	12,0	-	90	1	**142,41**

375B

Racord pentru carotiere Power-Max surub + arc



DIAGER < 5 KG

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
375B	14,0	-	62	1	**69,32**

322 - 323 - 342 - 395

Dalta cu varf ascutit elicoidal

- *cap de lucru elicoidal*
- *4 margini taietoare antiblocare*
- *finisare: brunare cu cap sablat*
- *compatibile: SDS-plus / SDS-max / SDS-top / SDS-plus & SPIT*



	Dimensiune	Lungime totala	Ambalare	
compatibila SDS-plus				
322D12L0250	12	250	1	**65,23**
322D14L0250	14	250	1	**34,74**
compatibila SDS-plus & SPIT				
323D14L0250	14	250		**114,90**
compatibila SDS-max				
342D18L0280	18	280	1	**55,80**
342D18L0400	18	400	1	**85,98**
342D18L0600	18	600	1	**126,84**
compatibila SDS-top				
395D14L0270	14	270	1	**67,90**

322Y - 342Y

Dalta cu varf ascutit elicoidal

- *cap de lucru elicoidal*
- *4 margini taietoare antiblocare*
- *finisare: brunare cu cap sablat*
- *compatibile: SDS-plus / SDS-max*



	Dimensiune	Lungime totala	Ambalare	
compatibila SDS-plus				
322YD14L0250	14	250	1	**33,33**
compatibila SDS-max				
342YD18L0400	18	400	1	**82,54**
342YD18L0600	18	600	1	**130,50**

318 - 319 - 343 - 396 - 320 - 355

Dalta lata

- *pentru orice aplicatie in beton si piatra*



	Dimensiune	Lungime totala	Ambalare	
compatibila SDS-plus				
318L20L0250	20	240	1	**52,81**
318L40L0200	40	200	1	**90,69**
compatibila SDS-plus & SPIT				
319L20L0250	20	250	1	**107,67**
compatibila SDS-max				
343L115L0350	115	350	1	**343,75**
343L24L0280	24	280	1	**72,77**
343L24L0400	24	400	1	**88,02**
343L24L0600	24	600	1	**117,26**
343L50L0360	50	360	1	**58,79**
343L80L0300	80	300	1	**197,26**
compatibila SDS-top				
396L20L0270	20	250	1	**63,82**
396L40L0250	40	250	1	**100,91**
396L60L0250	60	250	1	**158,75**
hexagon 19 mm				
320L24L0300	24	300	1	**73,09**
320L24L0400	24	400	1	**104,84**
320L80L0300	80	300	1	**235,46**
hexagon 26 mm				
394L75L0400	32	400	1	**331,34**

318Y - 343Y

Dalta lata

- *pentru orice aplicatie in beton si piatra*



	Dimensiune	Lungime totala	Ambalare	
compatibila SDS-plus				
318YL20L0250	20	240	1	**50,63**
318YL40L0200	40	200	1	**86,98**
compatibila SDS-max				
343YL24L0400	24	400	1	**84,44**

329

Dalta lata curbata

- *pentru inlaturarea mortarului de pe caramizi*



	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila SDS-plus					
329L10L0300	-	-	300	1	**269,25**

314

Dalta caneluri cu limitarea adancimii pentru caramida

- *pentru realizarea de canale in caramida*



	Dimensiune	Lungime totala	Ambalare	
compatibila SDS-plus				
314L32L0300	32x23	300	1	**238,60**
compatibila SDS-max				
314L35L0380	35x36	380	1	**420,77**

363

Cap dalta pentru buciardat

- *16 dinti, monobloc*



	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila SDS-max					
363D16L0045	45	-	45	1	**378,02**

348 - 349 - 397

Dalta lata unghiulara



	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila SDS-plus					
348L40L0200	40	-	200	1	**97,77**
compatibila SDS-max					
349L50L0300	50	-	300	1	**238,60**
compatibila SDS-top					
397L40L0250	40	-	250	1	**115,53**

361

Dalta lata danturata

• *pentru desprinderea caramizilor, placilor etc.*



DIAGER

Made in Germany

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila SDS-plus					
361L40L0280	38	-	280	1	**553,27**

311 - 312

Dalta caneluri pentru beton

• *pentru realizarea de canale in beton.*



DIAGER

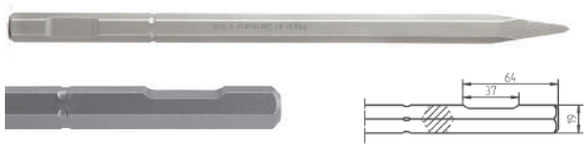
Made in Germany

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila SDS-plus					
311L22L0250	22	-	250	1	**113,96**
compatibila SDS-max					
312L26L0300	26	-	300	1	**192,07**

310

Dalta cu varf ascutit

• *coada hexagonala*



DIAGER

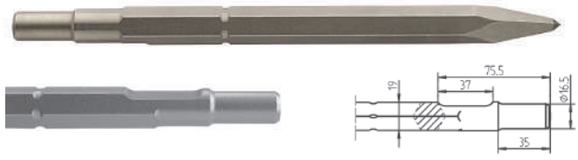
Made in Germany

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila hexagon 19 mm cu canelura de retentie					
310H19L0400	-	-	400	1	**La cerere**

324

Dalta cu varf ascutit

• *coada hexagonala*



DIAGER

Made in Germany

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila hexagon 19 mm cu capat cilindric Ø 16,5x35 mm					
324H19L0300	19	-	300	1	**101,07**
324H19L0400	19	-	400	1	**110,50**

359

Dalta cu varf ascutit

• *coada hexagonala*



DIAGER

Made in Germany

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila hexagon 22 mm cu 6 caneluri (TE-S)					
359D22L0360	22	-	360	1	**391,22**

354

Dalta cu varf ascutit

• *coada hexagonala*



DIAGER

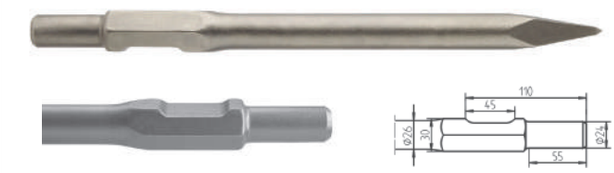
Made in Germany

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila hexagon 28 mm					
354H28L0400	28	-	400	1	**266,26**

393

Dalta cu varf ascutit

• *coada hexagonala*



DIAGER

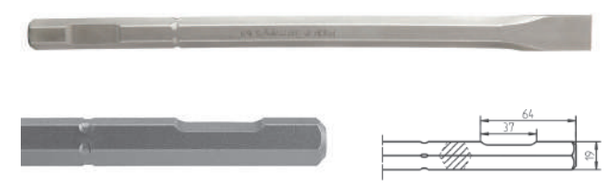
Made in Germany

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila hexagon 30 mm cu capat cilindric Ø 24x55 mm					
393D24L0400	24	-	400	1	**181,54**

347

Dalta lata

• *coada hexagonala*



DIAGER

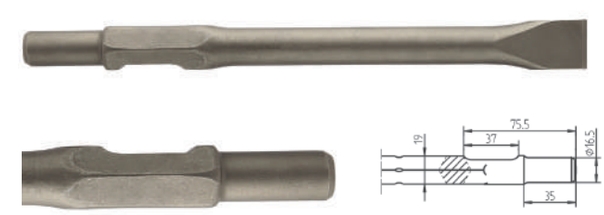
Made in Germany

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila hexagon 19 mm cu canelura de retentie					
347L24L0400	24	-	400	1	**La cerere**

320

Dalta lata

• *coada hexagonala*



DIAGER

Made in Germany

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila hexagon 19 mm cu capat cilindric Ø 16,5x35 mm					
320L24L0300	24	-	300	1	**73,09**
320L24L0400	24	-	400	1	**104,84**
320L80L0300	80	-	300	1	**235,46**

Compatibilitate cu unelte electrice

Coada		Brand	Articol
	Hexagon 19 mm + canelura de retinere pentru cap anti-praf	Atlas Copco	PB14D
		Bosch	HSH10 (12312) - USH10 (11305)
		Casals	Tornado
		DeWalt	D25940K -D25941K -DW558K
		Elu	SH60K
		Hitachi	DH50SH1 - H45FRV
		Kango	1400B - 638S - 800S - 900B - 900KS - 900S - 900XS - 950B
		Makita	HM1200B
		Milwaukee	5335
		Ryobi	CH465K - CH486K
		Spit	400 - 400S
	Hexagon 19 mm + capat cilindric Ø 16.5x35 mm	Atlas Copco	PB10H - PH11H - PH5H - PHE50H - PHE5H - PHE6H
		Bosch	GBH7-45DE (11214) - UBH12-50 (11209) - UBH6-35 - UBH6-35D - USH6
		Hitachi	DH38YA - DH38YF - DH40FA - DH40FB - DH40FR - DH50SB - DH50SBK
		Makita	HM0810B - HM1140C - HM1242C - HR3520B - HR3850B - HR4040C - HR5000
		Metabo	Bh1130S - Bh1131S - BhE6030S - RH66 - RH99 - RH99X
		Milwaukee	5311 - 5312 - 5316 - 5317 - 5343 - 5344 - 5347 - 5348 - 5352 - 5353 - PH11H - PH40H
		Wacker	EHB11BLS
	Hexagonal 22 mm + caneluri (TE-S)	Hilti	TE805 - TE905 - TE905AVR - TE1000AVR - TE1500AVR
	Hexagon 28 mm	Bosch	GSH16-28 - GSH27 - GSH27VC - HSH28 (12314) - USH27 (11304)
		DeWalt	D25960K - D25980 - D25980K
		Hilti	TE3000AVR
		Hitachi	H65 SD - H70 SD - H85 - H90 SE
		Makita	HM1303B - HM1304B - HM1317CB - HM1500B - HM1800 - HM1801 - HM1810
		Bosch	GSH16-30
		Hitachi	H65SB - H65SB2 - H70SA
	Hexagon 30 mm + capat cilindric Ø 24x55 mm	Makita	8900N - HM1300 - HM1303 - HM1304 - HM1317C - HM1400 - HM1500

355

Dalta lata

• *coada hexagonala*



DIAGER

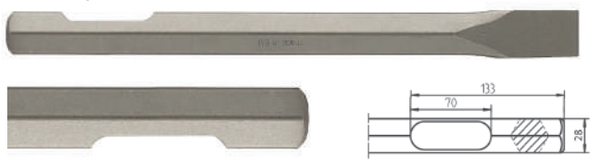
Made in Germany

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila hexagon 22 mm cu 6 caneluri (TE-S)					
355L28L0360	28	-	360	1	**395,31**

341

Dalta lata

• *coada hexagonala*



DIAGER

Made in Germany

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila hexagon 28 mm					
341L32L0400	32	-	400	1	**267,84**

394

Dalta lata

• *coada hexagonala*



DIAGER

Made in Germany

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
compatibila hexagon 30 mm cu capat cilindric Ø 24x55 mm					
394L32L0400	32	-	400	1	**251,80**
394L75L0400	75	-	400	1	**331,34**

315 C

Set de dalti SDS-max



DIAGER

Made in Germany

	Dimensiune	Ambalare	
315C	5 piese	1	**783,12**
	Dalti ascutite SDS-max : Ø18x400 (2 bucati) Dalti late SDS-max : L24x400 (2 bucati); L50x360		

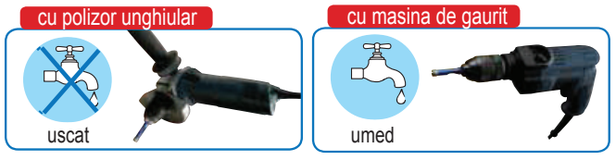


426

Carota cu carbura diamantata pentru placi ceramice

- *utilizare umeda cu masini de gaurit*
- *utilizare uscata cu polizoare unghiulare*
- *prindere hexagonala*
- *cap cu segmente diamantate*





	Dimensiune	Lungime activa	Lungime totala	Ambalare	
426D06	6,0	22	55	1	**115,53**
426D06.5	6,5	22	55	1	**120,40**
426D07	7,0	22	55	1	**122,44**
426D08	8,0	20	55	1	**116,00**
426D10	10,0	30	65	1	**125,43**
426D12	12,0	28	65	1	**137,69**
426D13	13,0	28	65	1	**145,39**
426D15	15,0	40	70	1	**152,31**
426D20	20,0	40	70	1	**178,09**
426D25	25,0	40	70	1	**193,80**

426B

Set carote cu carbura diamantata pentru placi ceramice



	Dimensiune	Ambalare	
426B	9 piese	1	**1289,93**
	Ø6(x2)-8(x2)-10-15-20 Mandrina si piatra de ascutit		

426C

Set carote cu carbura diamantata pentru placi ceramice



	Dimensiune	Ambalare	
426C	6 piese	1	**849,09**
	Ø6(x2)-8(x2) Mandrina si piatra de ascutit		

426Y

Carota cu carbura diamantata pentru placi ceramice

- *utilizare umeda cu masini de gaurit*
- *utilizare uscata cu polizoare unghiulare*
- *prindere hexagonala*
- *cap cu segmente diamantate*



	Dimensiune	Lungime activa	Lungime totala	Ambalare	
426YD06	6,0	22	55	1	**110,79**
426YD06.5	6,5	22	55	1	**117,75**
426YD08	8,0	20	55	1	**111,26**
426YD10	10,0	30	65	1	**120,31**
426YD12	12,0	28	65	1	**132,06**
426YD15	15,0	40	70	1	**147,63**
426YD20	20,0	40	70	1	**158,10**
426YD25	25,0	40	70	1	**167,81**

416

Piatra de ascutit

- *pentru ascutirea carotelor diamantate*
- *dimensiuni: 160x20x40 mm*



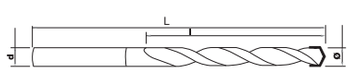
	Dimensiune	Lungime	Latime	Ambalare	
416	20	160	40	1	**98,05**

1096052

Burghiu coada cilindrica pentru beton si piatra, cu placuta CMS cu varf de centrare, SLR® DIN 8039

- *burghiu coada cilindrica pentru beton si piatra, cu placuta CMS cu varf de centrare, SLR® DIN 8039*
- *corpul burghiului din otel aliat, tratat termic*
- *partea activa, cu placuta CMS cu varf de centrare*
- *ideal pentru beton si piatra*
- *in conformitate cu DIN 8039*
- *coada cu aplatixzari impotriva rotirii in mandrina*
- *tija gradata pentu controlul adancimii gauririi*
- *geometria speciala a placutei aschietoare si a spirei confera viteza de gaurire si durata de viata sporite*





	Ø	d2	L	l1	
10960520300	3		60	34	**29,06**
10960520400	4		75	40	**29,38**
10960520500	5		85	50	**31,13**
10960520600	6		100	60	**31,58**
10960520700	7		100	60	**32,81**
10960520800	8		120	72	**36,63**
10960520900	9		120	72	**42,97**
10960521000	10		120	72	**43,43**
10960521200	12		150	92	**61,29**

263

Burghiu cu coada cilindrica cu trei muchii de taiere pentru beton

- *varf din carbura monobloc cu 3 muchii taietoare*
- *varf ascutit la 130°*
- *spira tripla*
- *coada cilindrica*
- *durata de utilizare crescuta datorita unei mai bune repartitii a presiunii pe cele 3 puncte de contact*
- *design inovativ cu 3 muchii taietoare cu carbura pentru gauri curate si concentrice*





Ø Max 12.7

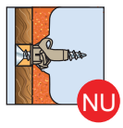
OPTIMA 3+



Burghiu standard pentru beton



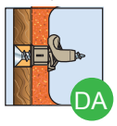
Gaura iesire stricata
Perete subtire



OPTIMA 3+ 3 muchii



Gaura iesire perfecta
Fixare optima



DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
seria scurta					
263D04	4,0	35	75	1	**10,85**
263D05	5,0	45	85	1	**11,95**
263D06	6,0	60	100	1	**12,42**
263D06.5	6,5	60	100	1	**14,46**
263D08	8,0	80	120	1	**14,62**
263D10	10,0	80	120	1	**20,43**
263D12	12,0	110	150	1	**29,55**
263D13	13,0	110	150	1	**32,69**
L 200					
263D08L0200	8,0	160	200	1	**29,24**
263D10L0200	10,0	160	200	1	**34,89**
263D12L0200	12,0	160	200	1	**38,04**
263D13L0200	13,0	160	200	1	**44,80**
L 400					
263D06L0400	6,0	360	400	1	**49,35**
263D06.5L0400	6,5	360	400	1	**51,08**
263D08L0400	8,0	360	400	1	**51,24**
263D10L0400	10,0	360	400	1	**53,76**
263D12L0400	12,0	360	400	1	**61,77**
263D13L0400	13,0	360	400	1	**72,62**

263B

Trusa burghie cu coada cilindrica cu trei muchii de taiere pentru beton



DIAGER

	Dimensiune	Ambalare	
263B	5 piese	1	**70,10**
	Ø4-5-6-8-10		

263Y

Burghiu cu coada cilindrica cu trei muchii de taiere pentru beton

- *varf din carbura monobloc cu 3 muchii taietoare*
- *varf ascutit la 130°*
- *spira tripla*
- *coada cilindrica*
- *durata de utilizare crescuta datorita unei mai bune repartitii a presiunii pe cele 3 puncte de contact*
- *design inovativ cu 3 muchii taietoare cu carbura pentru gauri curate si concentrice*





Ø Max 12.7

USH GERMANY

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
263YD04	4,0	35	75	1	**10,10**
263YD05	5,0	45	85	1	**11,43**
263YD06	6,0	60	100	1	**11,90**
263YD08	8,0	80	120	1	**13,97**
263YD10	10,0	80	120	1	**19,68**
263YD12	12,0	110	150	1	**28,41**

264Y

Burghiu cu coada cilindrica pentru beton

- *varf din carbura cu ascutire semi-pozitiva*
- *spira dublu-laminata*
- *finisare prin sablare*
- *coada cilindrica*
- *designul capului permite o gaurire mai rapida*





Ø Max 12.7

USH GERMANY

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
264YD03	3,0	20	60	1	**8,25**
264YD04	4,0	35	75	1	**8,41**
264YD05	5,0	45	85	1	**9,68**
264YD06	6,0	60	100	1	**10,00**
264YD06.5	6,5	60	100	1	**10,48**
264YD07	7,0	60	100	1	**13,02**
264YD08	8,0	80	120	1	**11,59**
264YD09	9,0	80	120	1	**13,44**
264YD10	10,0	80	120	1	**16,35**
264YD11	11,0	110	150	1	**22,04**
264YD12	12,0	110	150	1	**23,33**
264YD13	13,0	110	150	1	**25,68**
264YD14	14,0	110	150	1	**31,90**
264YD16	16,0	110	150	1	**38,41**
264YD18	18,0	120	160	1	**48,41**
264YD20	20,0	120	160	1	**61,27**
L 150					
264YD05L0150	5,0	110	150	1	**22,06**
264YD06L0150	6,0	110	150	1	**22,06**
L 200					
264YD06L0200	6,0	160	200	1	**23,17**
264YD08L0200	8,0	160	200	1	**25,71**
264YD10L0200	10,0	160	200	1	**30,95**
264YD12L0200	12,0	160	200	1	**33,49**
264YD14L0200	14,0	160	200	1	**37,14**
264YD16L0200	16,0	160	200	1	**43,17**
L 400					
264YD08L0400	8,0	360	400	1	**31,43**
264YD10L0400	10,0	360	400	1	**41,90**
264YD12L0400	12,0	360	400	1	**49,84**
264YD14L0400	14,0	360	400	1	**63,96**
264YD16L0400	16,0	360	400	1	**75,23**

265

Burghiu cu coada cilindrica pentru masini electrice cu acumulatori

- *varf din carbura pentru o durata de utilizare prlungita*
- *varf inalt pentru o mai buna ghidare*
- *coada cilindrica*
- *finisare: sablare*
- *ideal pentru utilizarea pe masini de gaurit cu acumulator*
- *economiseste acumulatorii masinii de gaurit cu peste 20%*



DIAGER FLASH

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
265D03	3,0	20	60	1	2,83
265D03.5	3,5	35	75	1	2,83
265D04	4,0	35	75	1	2,83
265D04.5	4,5	45	85	1	2,99
265D05	5,0	45	85	1	2,99
265D05.5	5,5	55	95	1	2,99
265D06	6,0	60	100	1	2,99
265D06.5	6,5	60	100	1	3,62
265D07	7,0	60	100	1	4,09
265D07.5	7,5	80	120	1	4,09
265D08	8,0	80	120	1	4,24
265D08.5	8,5	80	120	1	4,40
265D09	9,0	80	120	1	5,19
265D09.5	9,5	80	120	1	5,50
265D10	10,0	80	120	1	5,66
265D11	11,0	110	150	1	7,86
265D12	12,0	110	150	1	9,43
265D13	13,0	110	150	1	11,00
265D14	14,0	110	150	1	12,57
265D15	15,0	110	150	1	15,72
265D16	16,0	110	150	1	16,50
265D17	17,0	110	150	1	25,15
265D18	18,0	120	160	1	28,29
265D19	19,0	120	160	1	31,44
265D20	20,0	120	160	1	34,58
L 150					
265D05L0150	5,0	110	150	1	9,75
265D05.5L0150	5,5	110	150	1	9,75
265D06L0150	6,0	110	150	1	8,49
265D06.5L0150	6,5	110	150	1	9,75
265D07L0150	7,0	110	150	1	10,37
265D08L0150	8,0	110	150	1	9,43
265D09L0150	9,0	110	150	1	9,59
265D10L0150	10,0	110	150	1	9,59
L 200					
265D06L0200	6,0	160	200	1	11,00
265D07L0200	7,0	160	200	1	12,57
265D08L0200	8,0	160	200	1	12,57
265D10L0200	10,0	160	200	1	12,73
265D12L0200	12,0	160	200	1	23,58
265D14L0200	14,0	160	200	1	27,82
265D16L0200	16,0	160	200	1	34,74
L 300					
265D06L0300	6,0	260	300	1	19,33
265D07L0300	7,0	260	300	1	19,33
265D08L0300	8,0	260	300	1	19,33
265D09L0300	9,0	260	300	1	23,11
265D10L0300	10,0	260	300	1	25,46
265D12L0300	12,0	260	300	1	26,72
265D14L0300	14,0	260	300	1	30,34
265D15L0300	15,0	260	300	1	36,31
265D16L0300	16,0	260	300	1	40,87
265D18L0300	18,0	260	300	1	51,87
265D20L0300	20,0	260	300	1	61,93
L 400					
265D06L0400	6,0	360	400	1	26,72
265D07L0400	7,0	360	400	1	26,72
265D08L0400	8,0	360	400	1	16,98
265D09L0400	9,0	360	400	1	27,98
265D10L0400	10,0	360	400	1	27,98
265D12L0400	12,0	360	400	1	20,43
265D14L0400	14,0	360	400	1	35,21
265D15L0400	15,0	360	400	1	40,08
265D16L0400	16,0	360	400	1	47,00
265D18L0400	18,0	360	400	1	54,38
265D20L0400	20,0	360	400	1	65,07
265D22L0400	22,0	360	400	1	107,83
265D24L0400	24,0	360	400	1	131,40
265D25L0400	25,0	360	400	1	151,21
L 600					
265D06L0600	6,0	560	600	1	31,59
265D08L0600	8,0	560	600	1	38,35
265D10L0600	10,0	560	600	1	40,87
265D12L0600	12,0	560	600	1	48,73
265D14L0600	14,0	560	600	1	49,98
265D16L0600	16,0	560	600	1	57,53
265D18L0600	18,0	560	600	1	68,37
265D20L0600	20,0	560	600	1	82,68
L 1000					
265D06L1000	6,0	960	1000	1	228,54
265D08L1000	8,0	960	1000	1	261,39
265D10L1000	10,0	960	1000	1	288,90
265D12L1000	12,0	960	1000	1	306,97
265D18L1000	18,0	960	1000	1	464,94
265D22L1000	22,0	960	1000	1	757,92
265D25L1000	25,0	960	1000	1	911,44

265

Trusa burghie cu coada cilindrica pentru masini electrice cu acumulatori



250C



252C



251C



268R



269R



271R

DIAGER

	Dimensiune	Ambalare	
250C	8 piese	1	54,07
	Ø3-4-5-6-7-8-9-10		
251C	5 piese	1	19,65
	Ø4-5-6-8-10		
252C	5 piese	1	42,60
	Ø4-5-6-7-8		
268R	5 piese	1	19,88
	Ø4-5-6-8-10		
269R	5 piese	1	13,56
	Ø4-5-6-7-8		
271R	3 piese	1	19,11
	Ø4-6-8		

226Y

Burghiu cu coada cilindrica pentru beton

- *varf din carbura cu ascutire semi-pozitiva*
- *spira forma "U"*
- *finisare prin polisare*
- *coada cilindrica*





Ø Max 12.7

USH GERMANY

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
226YD04	4,0	35	75	1	**9,86**
226YD05	5,0	45	85	1	**11,05**
226YD06	6,0	60	100	1	**11,27**
226YD08	8,0	80	120	1	**13,33**
226YD10	10,0	80	120	1	**18,57**
226YD12	12,0	110	150	1	**27,03**

215Y

Burghiu cu coada cilindrica multimaterial

- *varf cu ascutire pozitiva si punct de centrare*
- *unghi de ascutire: 118º*
- *4 muchii ascutite*
- *spira profilata L*
- *coada cilindrica*
- *pentru utilizari universale*
- *gauri perfecte si curate*
- *gaurire rapida*





USH GERMANY

Ø Max 12.7

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
215YD04	4,0	35	75	1	**19,84**
215YD05	5,0	45	85	1	**21,11**
215YD06	6,0	45	85	1	**24,44**
215YD08	8,0	80	120	1	**26,82**
215YD10	10,0	80	120	1	**30,16**
215YD12	12,0	110	150	1	**35,13**

215

Burghiu cu coada cilindrica multimaterial

- *varf cu ascutire pozitiva si punct de centrare*
- *unghi de ascutire: 118º*
- *4 muchii ascutite*
- *spira profilata L*
- *coada cilindrica*
- *pentru utilizari universale*
- *gauri perfecte si curate*
- *gaurire rapida*





DIAGER

Ø Max 12.7

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
215D03	3,0	20	60	1	**20,75**
215D04	4,0	35	75	1	**20,75**
215D05	5,0	45	85	1	**22,01**
215D05.5	5,5	45	85	1	**31,75**
215D06	6,0	60	100	1	**25,46**
215D06.5	6,5	60	100	1	**26,41**
215D07	7,0	60	100	1	**26,41**
215D08	8,0	80	120	1	**27,98**
215D09	9,0	80	120	1	**28,92**
215D10	10,0	80	120	1	**31,44**
215D12	12,0	110	150	1	**38,82**
215D13	13,0	110	150	1	**42,28**
215D14	14,0	110	150	1	**48,10**
215D16	16,0	110	150	1	**52,66**

215

Trusa burghie cu coada cilindrica multimaterial





DIAGER

	Dimensiune	Ambalare	
215C	8 piese	1	**222,10**
	Ø3-4-5-6-7-8-9-10		
215B	5 piese	1	**139,58**
	Ø4-5-6-8-10		

245

Burghiu coada cilindrica pentru materiale ceramice

- *varf din carbura pentru conditii grele de lucru*
- *ascutire pozitiva a muchiilor si varf de centrare*
- *spira cu profil L*
- *coada cilindrica*





DIAGER

Ø Max 12.7

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
245D03	3,0	20	60	1	**18,86**
245D04	4,0	35	75	1	**19,65**
245D05	5,0	45	85	1	**21,53**
245D06	6,0	60	100	1	**22,01**
245D07	7,0	60	100	1	**23,58**
245D08	8,0	80	120	1	**25,93**
245D09	9,0	80	120	1	**28,29**
245D10	10,0	80	120	1	**36,31**
245D12	12,0	110	150	1	**52,03**

245

Trusa burghie cu coada cilindrica pentru materiale ceramice





DIAGER

	Dimensiune	Ambalare	
239B	8 piese	1	**181,86**
	Ø3-4-5-6-7-8-9-10		
214B	5 piese	1	**113,64**
	Ø4-5-6-8-10		

208

Burghiu cu coada cilindrica pentru granit

- *varf din carbura pentru conditii grele de lucru*
- *ascutire pozitiva a muchiilor*
- *spira cu profil L*
- *coada cilindrica*



DIAGER

Ø Max 12.7

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
208D04	4,0	35	75	1	**17,45**
208D05	5,0	45	85	1	**19,65**
208D06	6,0	60	100	1	**19,96**
208D06.5	6,5	60	100	1	**21,06**
208D07	7,0	60	100	1	**23,11**
208D08	8,0	80	120	1	**23,58**
208D09	9,0	80	120	1	**25,46**
208D10	10,0	80	120	1	**33,01**
208D12	12,0	110	150	1	**47,47**
208D14	14,0	110	150	1	**65,07**
208D16	16,0	110	150	1	**73,87**

207B

Trusa burghie cu coada cilindrica pentru granit



DIAGER

	Dimensiune	Ambalare	
207B	8 piese	1	**172,11**
	Ø3-4-5-6-7-8-9-10		

208Y

Burghiu cu coada cilindrica pentru granit

- *varf din carbura pentru conditii grele de lucru*
- *ascutire pozitiva a muchiilor*
- *spira cu profil L*
- *coada cilindrica*



USH GERMANY

Ø Max 12.7

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
208YD04	4,0	35	75	1	**17,07**
208YD05	5,0	45	85	1	**19,21**
208YD06	6,0	60	100	1	**18,73**
208YD08	8,0	80	120	1	**22,22**
208YD10	10,0	80	120	1	**30,95**
208YD12	12,0	110	150	1	**46,43**

400

Burghiu cu coada cilindrica pentru sticla

- *se utilizeaza pentru gaurire umeda si viteza mica de gaurire*
- *varf din carbura*
- *coada cilindrica*



DIAGER

Ø Max 12.7

DIAGER INNOVATION

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
400D03	3,0	25	65	1	**24,52**
400D04	4,0	25	65	1	**25,78**
400D05	5,0	25	65	1	**27,82**
400D06	6,0	25	65	1	**30,02**
400D07	7,0	30	70	1	**31,91**
400D08	8,0	30	70	1	**33,95**
400D09	9,0	30	70	1	**50,77**
400D10	10,0	40	80	1	**50,77**
400D12	12,0	40	80	1	**68,69**
400D13	13,0	40	80	1	**75,45**

400Y

Burghiu cu coada cilindrica pentru sticla

- *se utilizeaza pentru gaurire umeda si viteza mica de gaurire*
- *varf din carbura*
- *coada cilindrica*



USH GERMANY

Ø Max 12.7

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
400YD04	4,0	25	65	1	**24,76**
400YD06	6,0	25	65	1	**28,73**
400YD08	8,0	30	70	1	**30,97**

201

Burghiu special pentru panouri de placare interioare si exterioare, mobila si suprafete decorative

- *ideal pentru gaurire panouri amenajari interioare, cum ar fi Corian, lemn, materiale compozite, plastic sau fibrociment sau panouri fatade*
- *placuta din carbura cu 2 varfuri trasoare*
- *varf de centrare la 75°*
- *coada cilindrica*
- *gauri curate, fara aschii*
- *varf de auto-centrare pentru pornire usoara*
- *durata de viata lunga*
- *penetrare rapida*



DIAGER

HPL

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
201D05	5,0		85	1	**53,93**
201D06	6,0		100	1	**54,70**
201D08	8,0		120	1	**61,49**
201D10	10,0		120	1	**64,57**

431

Carota cu segmente diamantate scurta pentru materiale de constructii

- *pentru instalatori si electricieni*
- *segmente ondulate scurte*
- *diamante de inalta calitate*
- *prindere M16*
- *utilizare uscata, turatie recomandata 25000 rpm*
- *fara vibratii, fara aschii*



	Dimensiune	N.S.	Lungime	Ambalare	
431D68	68	5	66	1	**520,42**
431D82	82	6	66	1	**642,87**

432

Carota cu segmente diamantate lunga pentru materiale de constructii

- *pentru instalatori si electricieni*
- *segmente ondulate scurte*
- *diamante de inalta calitate*
- *prindere M16*
- *utilizare uscata, turatie recomandata 25000 rpm*
- *fara vibratii, fara aschii*



	Dimensiune	N.S.	Lungime	Ambalare	
432D29	29	3	154	1	**541,49**
432D35	35	3	154	1	**565,06**
432D42	42	4	154	1	**640,51**
432D52	52	5	154	1	**640,51**
432D65	65	5	154	1	**725,39**

431C

Trusa carote pentru electrician



	Dimensiune	Ambalare	
431C	5 piese	1	**1162,82**
	carota diamantata Ø68 + adaptor compatibil SDS-plus L100mm + burghiu de cenreare + piatra de ascutit		

367 - 368 - 433

Adaptor pentru carote diamantate

- *filet M16*



	Dimensiune	Lungime	Ambalare	
compatibil SDS-plus				
367L0100	100	100	1	**203,39**
367L0170	170	170	1	**244,26**
367L0220	220	220	1	**266,26**
367L0320	320	320	1	**310,27**
compatibil SDS-plus & SPIT				
368L100	100	100	1	**203,39**
hexagonal				
433L0100	100	100	1	**232,94**
433L0220	220	220	1	**342,65**
433L0320	320	320	1	**412,13**

420

Ghidaj de centrare pentru carote diamantate



	Dimensiune	Lungime activa	Lungime totala	Ambalare	
420D08L0120	8	90	120	1	**42,60**
420D08L0210	8	180	210	1	**47,94**

427

Piatra de ascutit

- *dimensiuni: 200x20x100 mm*



	Dimensiune	Lungime	Latime	Ambalare	
427	20	100	200	1	**212,11**

326

Carota cu placute CMS SDS-plus

- *placute sudate din carbura*
- *corp din otel, tratat termic*
- *ideala pentru gauri de diametre mari pentru instalatii electrice*
- *pentru utilizare cu masini de gaurit cu percutie de pana la 700 W*



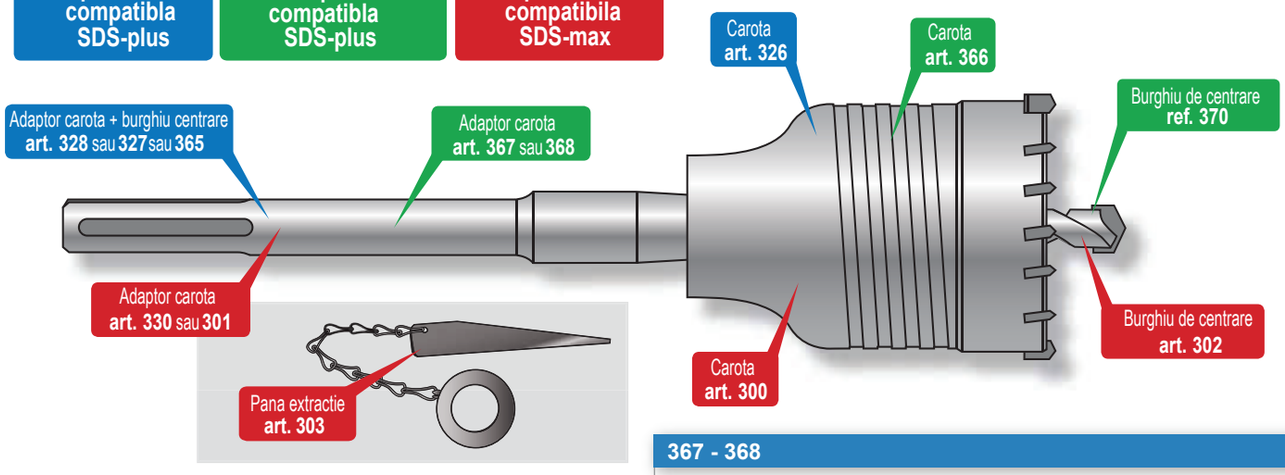
	Dimensiune	Lungime activa	Lungime totala	Ambalare	
326D25	25	40	60	1	**247,56**
326D30	30	40	60	1	**244,26**
326D35	35	40	60	1	**250,55**
326D40	40	40	60	1	**266,26**
326D45	45	40	60	1	**281,98**
326D50	50	40	60	1	**313,26**
326D60	60	40	60	1	**349,10**
326D66	66	40	60	1	**381,32**
326D68	68	40	60	1	**386,66**
326D70	70	40	60	1	**396,09**
326D80	80	40	60	1	**415,11**
326D90	90	40	60	1	**462,27**

Carote pentru beton

Carota **placata CMS compatibila SDS-plus**

Carota **Pro placata CMS compatibila SDS-plus**

Carota **placata CMS compatibila SDS-max**



327 - 328 - 365

Adaptor hexagonal pentru carote



DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
Adaptor compatibil SDS-plus pentru carote					
328L0090	90	-	90	1	**168,65**
328L150	150	-	150	1	**187,52**
328L200	200	-	200	1	**212,98**
328L300	300	-	300	1	**259,98**
Adaptor compatibil SDS-plus & SPIT pentru carote					
327	90	-	90	1	**192,99**
Adaptor compatibil HEXA pentru carote					
365L0135	135	-	135	1	**149,79**

366

Carota cu placute CMS SDS-plus

- *placute sudate din carbura*
- *corp din otel, tartat termic*
- *filet de montare M16*
- *ideala pentru gauri de diametre mari pentru instalatii electrice*
- *pentru utilizare cu masini de gaurit cu percutie de 700 W - 950 W, pana la 5 kg*



DIAGER

< 5 KG

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
366D30	30	50	70	1	**285,13**
366D35	35	50	70	1	**301,00**
366D40	40	50	70	1	**364,66**
366D45	45	50	70	1	**396,09**
366D50	50	50	70	1	**427,53**
366D60	60	50	70	1	**459,12**
366D66	66	50	70	1	**491,50**
366D68	68	50	70	1	**538,81**
366D70	70	50	70	1	**570,25**
366D80	80	50	70	1	**601,53**
366D85	85	50	70	1	**632,97**
366D90	90	50	70	1	**697,09**
366D105	105	50	70	1	**889,01**
366D125	125	50	70	1	**982,06**
366D130	130	50	70	1	**1109,51**

367 - 368

Adaptor compatibil SDS-plus & SPIT pentru carote



DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
Adaptor compatibil SDS-plus pentru carote					
367L0100	100	-	100	1	**203,39**
367L0170	170	-	170	1	**244,26**
367L0220	220	-	220	1	**266,26**
367L0320	320	-	320	1	**310,27**
Adaptor compatibil SDS-plus & SPIT pentru carote					
368L100	100	-	100	1	**203,39**

370

Burghiu de centrare



DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
370D09L0100	8	65	100	1	**46,37**

300

Carota cu placute CMS SDS-max

- *puternica si eficienta in lucrari de renovare si instalatii sanitare*
- *se poate utiliza cu orice tip de masina de gaurit cu percutie cu putere mai mare de 950 W, peste 5 kg*



DIAGER

> 5 KG

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
300D30	30	75	100	1	**316,56**
300D35	35	75	100	1	**333,22**
300D40	40	75	100	1	**396,09**
300D45	45	75	100	1	**427,53**
300D50	50	75	100	1	**459,12**
300D60	60	75	100	1	**491,50**
300D66	66	75	100	1	**538,81**
300D70	70	75	100	1	**570,25**
300D80	80	75	100	1	**632,97**
300D90	90	75	100	1	**728,37**
300D100	100	75	100	1	**823,94**
300D110	110	75	100	1	**949,53**
300D125	125	75	100	1	**1044,93**
300D150	150	75	100	1	**2342,30**

330

Adaptor compatibil SDS-max pentru carote



DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
330L0220	220	-	220	1	301,00
330L0420	420	-	420	1	371,10
330L0700	700	-	700	1	510,36
330L0900	900	-	900	1	570,25

301

Adaptor compatibil Spline pentru carote



DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
301L0220	220	-	220	1	301,00
301L0420	420	-	420	1	371,10
301L0700	700	-	700	1	510,36
301L0900	900	-	900	1	570,25

302

Burghiu de centrare



DIAGER

	Dimensiune	Lungime activa	Lungime totala	Ambalare	
302	11	90	102	1	50,74

303

Pana pentru carota



DIAGER

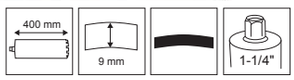
	Ambalare	
303	1	166,21

439B

Carota pentru asfalt gaurire umeda

- *carota speciala pentru asfalt*
- *utilizare pe masini puternice, prindere 1.1/4”*





DIAGER

	Dimensiune	N.S.	Lungime totala	Ambalare	
439BD082L0400	82	9	400	1	La cerere
439BD092L0400	92	10	400	1	La cerere
439BD102L0400	102	11	400	1	La cerere
439BD112L0400	112	12	400	1	La cerere
439BD122L0400	122	13	400	1	La cerere
439BD127L0400	127	13	400	1	La cerere
439BD132L0400	132	14	400	1	La cerere
439BD142L0400	142	15	400	1	La cerere
439BD152L0400	152	16	400	1	La cerere
439BD162L0400	162	17	400	1	La cerere
439BD172L0400	172	18	400	1	La cerere
439BD182L0400	182	19	400	1	La cerere
439BD196L0400	196	20	400	1	La cerere
439BD200L0400	200	22	400	1	La cerere

436

Carota pentru materiale dure si beton abraziv

- *noul segment este mai rezistent*
- *de doua ori mai multe diamante*
- *noul segment este realizat cu diamant acoperit cu titan, care permite o munca eficienta si o durata de viata mai lunga*
- *segmente ondulate: evacuarea mai buna a molozului si un efort mai mic pentru masina si pentru utilizator*
- *segmente deschise: carota este gata de utilizare*
- *gaurire uscata*





DIAGER



	Dimensiune	N.S.	Lungime totala	Ambalare	
Conectare 1/2”					
436AD030L0400	30	4	400	1	856,95
436AD035L0400	35	5	400	1	918,40
436AD040L0400	40	5	400	1	1016,33
436AD046L0400	46	6	400	1	1071,34
436AD051L0400	51	5	400	1	La cerere
436AD056L0400	56	5	400	1	La cerere
436AD061L0400	61	6	400	1	1148,99
436AD066L0400	66	6	400	1	La cerere
436AD071L0400	71	6	400	1	La cerere
436AD082L0400	82	8	400	1	La cerere
436AD087L0400	87	8	400	1	La cerere
436AD092L0400	92	8	400	1	La cerere
436AD102L0400	102	10	400	1	La cerere
436AD112L0400	112	10	400	1	1544,14
436AD127L0400	127	11	400	1	1727,88
436AD132L0400	132	12	400	1	La cerere
436AD152L0400	152	12	400	1	La cerere
436AD162L0400	162	13	400	1	La cerere
436AD169L0400	169	14	400	1	La cerere
436AD200L0400	200	6	400	1	2970,71
Conectare 1.1/4”					
436BD046L0400	46	7	400	1	La cerere
436BD051L0450	51	5	400	1	1071,34
436BD056L0400	56	6	400	1	La cerere
436BD061L0400	61	6	400	1	1102,15
436BD066L0400	66	7	400	1	La cerere
436BD071L0400	71	8	400	1	La cerere
436BD076L0400	76	8	400	1	1212,33
436BD082L0400	82	8	400	1	La cerere
436BD087L0400	87	10	400	1	La cerere
436BD092L0400	92	10	400	1	La cerere
436BD102L0400	102	10	400	1	La cerere
436BD112L0450	112	10	400	1	1518,36
436BD117L0450	117	10	400	1	La cerere
436BD122L0450	122	11	400	1	La cerere
436BD127L0450	127	11	400	1	1873,43
436BD132L0450	132	12	400	1	La cerere
436BD142L0450	142	12	400	1	La cerere
436BD152L0400	152	13	400	1	La cerere
436BD162L0450	162	13	400	1	La cerere
436BD169L0450	169	13	400	1	La cerere
436BD172L0450	172	13	400	1	La cerere
436BD182L0450	182	13	400	1	La cerere
436BD196L0450	187	14	400	1	La cerere
436BD196L0400	196	13	400	1	La cerere
436BD200L0450	200	15	400	1	La cerere
436BD212L0450	212	14	400	1	La cerere
436BD225L0450	225	15	400	1	La cerere
436BD248L0450	226	15	400	1	La cerere
436BD248L0400	248	16	400	1	La cerere
436BD250L0450	250	18	400	1	La cerere
436BD266L0450	266	16	400	1	La cerere
436BD275L0450	275	18	400	1	La cerere
436BD277L0450	277	18	400	1	La cerere
436BD297L0400	297	24	400	1	4542,98
436BD297L0450	300	24	400	1	4542,98
436BD342L0450	342	24	400	1	La cerere
436BD350L0450	350	26	400	1	La cerere
436BD353L0450	353	24	400	1	La cerere
436BD400L0450	400	26	400	1	La cerere
436BD405L0450	405	26	400	1	La cerere

3346/89-FB

Carota bimetal pentru fatade, diametru 89 mm, 4/6 tpi, cu razuitor din carbura de tungsten si limitator de adancime la 90 mm

- *recomandat pentru taieri curate in Styrofoam (PS) si placi dure de spuma*
- *solutie perfecta pentru reparatiile fatadelor izolate*
- *adaptor hexagonal si dorn centrare incorporate*





	TPI	Diametru	Ambalare	
33289 00101	3 1/2"	89 mm	1	**807,17**

3346/76-TB

Carota bimetal pentru gips-carton, diametru 76 mm, 4/6 tpi, cu razuitor din carbura de tungsten si limitator de adancime la 38 mm

- *solutie perfecta pentru taieri curate si fara praf, in gips-carton*
- *adaptor hexagonal cu ax de 9,5 mm si dorn centrare incorporate*





	TPI	Diametru	Ambalare	
33276 00101	3"	76 mm	1	**675,04**

33XL

Carote placate T.C.T. 165 mm

- *pentru taieri rapide si agresive datorita canalelor mari de evacuare*
- *pentru materiale de pana la 165 mm*



Art.		Dimensiune mm	Nr. de dinti	Ambalare	
33/51	**33651 00001**	Ø 51 mm, NL 165 mm	3	1	**505,29**
33/60	**33660 00001**	Ø 60 mm, NL 165 mm	3	1	**919,81**
33/70	**33670 00001**	Ø 70 mm, NL 165 mm	3	1	**1085,31**
33/80	**33680 00001**	Ø 80 mm, NL 165 mm	4	1	**1221,23**
33/102	**33702 00001**	Ø 102 mm, NL 165 mm	5	1	**1377,49**
33/111	**33711 00001**	Ø 111 mm, NL 165 mm	5	1	**1540,37**
33/121	**33721 00001**	Ø 121 mm, NL 165 mm	6	1	**1790,16**
33/130	**33730 00001**	Ø 130 mm, NL 165 mm	6	1	**2073,24**
33/152	**33752 00001**	Ø 152 mm, NL 165 mm	6	1	**2378,51**
33/160	**33760 00001**	Ø 160 mm, NL 165 mm	6	1	**3022,02**

LWS 68/85

Carota HCS cu muchii de taiere ondulate, pentru taieri in materiale de izolare moi si fibroase

- *diametru 68 mm si adancime de taiere 85 mm.*
- *solutie perfecta pentru taieri curate, rapide si fara praf in materiale de izolare tip vata minerala, vata de sticla, fibre de canepa, in sau lana.*
- *adaptor hexagonal cu ax de 9,5 mm si dorn centrare incorporate*



Art.		Dimensiune mm	Ambalare	
LWS 35/85	**33435 00101**	35 mm	1	**488,37**
LWS 65/85	**33465 00101**	65 mm	1	**678,00**
LWS 68/85	**33468 00101**	68 mm	1	**765,84**
LWS 74/85	**33474 00101**	74 mm	1	**846,37**
LWS 106,5/85	**33506 00101**	106,5 mm	1	**1251,80**
LWS 121/85	**33521 00101**	121 mm	1	**1352,03**

3346/60-LB

Carota cu arc ejector 68 mm

- *diametru 68 mm si adancime de taiere 36 mm.*
- *solutie perfecta pentru taieri curate, rapide pentru montarea panourilor electrice in pereti subtiri*
- *adaptor hexagonal cu ax de 9,5 mm si dorn centrare incorporate*



	TPI	Diametru	Ambalare	
33600 00001	2 11/18"	68 mm	1	**428,55**

32

Carote cu carbura din tungsten

- *foarte rezistente, diniti cu carbura de tungsten*
- *carbura de tungsten asigura progresul optim al gauririi in materialele rasinoase si abrazive*
- *poate functiona cu actionare SDS / ciocan rotopercutor, dar fara percutie*
- *durată lunga de viata*
- *ideale pentru: ceramica, gips carton, placi aglomerate, lemn dur, lemn rasinoas, produse din sticla si fibra de carbon (GRP), fibro-ciment, otel turnat, BCA, pardoseli, gresie si tigla*



Art.		Dimensiune mm	Dimensiune inch	Ambalare	
32/16	**32016 00001**	16 mm	5/8 inch	1	**74,43**
32/20	**32020 00001**	20 mm	25/32 inch	1	**64,86**
32/25	**32025 00001**	25 mm	1 inch	1	**67,66**
32/32	**32032 00001**	32 mm	1 1/4 inch	1	**73,40**
32/44	**32044 00001**	44 mm	1 3/4 inch	1	**86,87**
32/51	**32051 00001**	51 mm	2 inch	1	**87,53**
32/54	**32054 00001**	54 mm	2 1/8 inch	1	**102,63**
32/60	**32060 00001**	60 mm	2 3/8 inch	1	**106,41**
32/64	**32064 00001**	64 mm	2 1/2 inch	1	**111,01**
32/70	**32070 00001**	70 mm	2 3/4 inch	1	**121,19**
32/73	**32073 00001**	73 mm	2 7/8 inch	1	**135,48**
32/83	**32083 00001**	83 mm	3 1/4 inch	1	**143,52**
32/102	**32102 00001**	102 mm	4 inch	1	**169,80**

33

Carote universale placate T.C.T. 60 mm

- *pentru taieri rapide si agresive datorita canalelor mari de evacuare*
- *ideala pentru toate tipurile de lemn, PAL, rigips, materiale plastice, materiale ranforsate cu fibra de sticla sau de carbon, BCA, materiale de tip sandwich de pana la 60 mm*



Art.		Dimensiune mm	Dimensiune inch	Nr. de dinti	
33/30	**33030 00001**	30 mm	1 3/16 inch	3	**230,82**
33/40	**33040 00001**	40 mm	1 9/16 inch	3	**270,36**
33/50	**33050 00001**	50 mm	2 inch	3	**292,78**
33/55	**33055 00001**	55 mm	2 1/8 inch	3	**314,62**
33/60	**33060 00001**	60 mm	2 3/8 inch	5	**333,58**
33/65	**33065 00001**	65 mm	2 9/16 inch	5	**346,92**
33/68	**33068 00001**	68 mm	2 11/16 inch	5	**349,45**
33/76	**33076 00001**	76 mm	3 inch	5	**447,84**
33/80	**33080 00001**	80 mm	3 1/8 inch	5	**461,18**
33/90	**33090 00001**	90 mm	3 1/2 inch	5	**520,95**
33/105	**33105 00001**	105 mm	4 1/8 inch	6	**667,39**

33/S

Carote placate T.C.T. 60 mm

- *pentru taieri rapide si agresive datorita canalelor mari de evacuare*
- *pentru materiale de pana la 60 mm*



Art.		Dimensiune mm	Nr. de dinti	Ambalare	
33/S16	**33116 00001**	33/S16LS 16 mm	1	1	**65,09**
33/S19	**33119 00001**	33/S19LS 19 mm	1	1	**68,60**
33/S20	**33120 00001**	33/S20LS 20 mm	1	1	**68,60**
33/S22	**33122 00001**	33/S22LS 22 mm	1	1	**70,82**
33/S25	**33125 00001**	33/S25LS 25 mm	1	1	**70,82**
33/S29	**33129 00001**	33/S29LS 29 mm	1	1	**76,56**
33/S30	**33130 00001**	33/S30LS 30 mm	1	1	**76,56**
33/S32	**33132 00001**	33/S32LS 32 mm	1	1	**78,59**
33/S35	**33135 00001**	33/S35LS 35 mm	1	1	**78,59**
33/S38	**33138 00001**	33/S38LS 38 mm	2	1	**78,59**
33/S40	**33140 00001**	33/S40LS 40 mm	2	1	**81,64**
33/S44	**33144 00001**	33/S44LS 44 mm	2	1	**81,64**
33/S45	**33145 00001**	33/S45LS 45 mm	2	1	**81,64**
33/S50	**33150 00001**	33/S50LS 50 mm	2	1	**102,44**
33/S51	**33151 00001**	33/S51LS 51mm	3	1	**102,44**
33/S54	**33154 00001**	33/S54LS 54mm	3	1	**104,66**
33/S57	**33157 00001**	33/S57LS 57mm	3	1	**105,40**
33/S60	**33160 00001**	33/S60LS 60mm	3	1	**111,88**
33/S63	**33163 00001**	33/S63LS 63mm	3	1	**128,43**
33/S64	**33164 00001**	33/S64LS 64mm	3	1	**128,43**
33/S65	**33165 00001**	33/S65LS 65mm	3	1	**128,43**
33/S67	**33167 00001**	33/S67LS 67mm	3	1	**135,73**
33/S68	**33168 00001**	33/S68LS 68mm	3	1	**135,73**
33/S70	**33170 00001**	33/S70LS 70mm	3	1	**137,76**
33/S73	**33173 00001**	33/S73LS 73mm	3	1	**137,76**
33/S74	**33174 00001**	33/S74LS 74mm	3	1	**137,76**
33/S76	**33176 00001**	33/S76LS 76mm	4	1	**145,81**
33/S79	**33179 00001**	33/S79LS 79mm	4	1	**160,88**
33/S80	**33180 00001**	33/S80LS 80mm	4	1	**160,88**
33/S82	**33182 00001**	33/S82LS 82mm	4	1	**160,88**
33/S83	**33183 00001**	33/S83LS 83mm	4	1	**165,04**
33/S86	**33186 00001**	33/S86LS 86mm	4	1	**168,92**
33/S89	**33189 00001**	33/S89LS 89mm	4	1	**168,92**
33/S92	**33192 00001**	33/S92LS 92mm	4	1	**168,92**
33/S102	**33202 00001**	33/S102LS 102mm	5	1	**202,12**
33/S105	**33205 00001**	33/S105LS 105mm	5	1	**202,12**
33/S108	**33208 00001**	33/S108LS 108mm	5	1	**206,37**
33/S111	**33211 00001**	33/S111LS 111mm	5	1	**206,37**
33/S114	**33214 00001**	33/S114LS 114mm	5	1	**214,32**
33/S121	**33221 00001**	33/S121LS 121mm	6	1	**227,17**
33/S125	**33225 00001**	33/S125LS 125mm	6	1	**232,53**
33/S127	**33227 00001**	33/S127LS 127mm	6	1	**232,53**
33/S133	**33233 00001**	33/S133LS 133mm	6	1	**235,31**
33/S140	**33240 00001**	33/S140LS 140mm	6	1	**235,31**
33/S152	**33252 00001**	33/S152LS 152mm	6	1	**284,31**
33/S160	**33260 00001**	33/S160LS 160mm	6	1	**299,38**
33/S165	**33265 00001**	33/S165LS 165mm	6	1	**314,45**
33/S177	**33277 00001**	33/S177LS 177mm	6	1	**345,89**
33/S185	**33285 00001**	33/S185LS 185mm	6	1	**381,39**
33/S210	**33310 00001**	33/S210LS 210mm	6	1	**438,53**

30

Carota Bi-Metal 8% Cobalt

• dantura variabila de 4/6 tpi de inalta calitate, bi-metal aliat cu cobalt pentru taieri curate si rapide si o durata lunga de viata.
• suportul masiv posterior asigura o taiere neteda si gauri precise pentru prize, filete, cabluri si conducte.
• în special pentru: lemn, placi de ghips, materiale plastice, metale neferoase, otel aluminiu si otel inoxidabil minim 1 mm.



MADE IN GERMANY

bi
8% COBALT

z 4 - 6
pZ • tpi • d/p
Variabel

38 mm

WILPU MADE IN GERMANY

LONG LIFE

Art.		Dimensiune mm	Dimensiune inch	Ambalare	
30/14	**30014 00101**	14 mm	9/16 inch	1	**39,94**
30/16	**30016 00101**	16 mm	5/8 inch	1	**39,94**
30/17	**30017 00101**	17 mm	11/16 inch	1	**39,94**
30/19	**30019 00101**	19 mm	3/4 inch	1	**39,94**
30/20	**30020 00101**	20 mm	25/32 inch	1	**39,94**
30/21	**30021 00101**	21 mm	13/16 inch	1	**41,33**
30/22	**30022 00101**	22 mm	7/8 inch	1	**41,33**
30/23	**30023 00101**	23 mm	8/9 inch	1	**42,72**
30/24	**30024 00101**	24 mm	15/16 inch	1	**42,72**
30/25	**30025 00101**	25 mm	1 inch	1	**42,72**
30/27	**30027 00101**	27 mm	1 1/16 inch	1	**43,48**
30/29	**30029 00101**	29 mm	1 1/8 inch	1	**45,00**
30/30	**30030 00101**	30 mm	1 3/16 inch	1	**45,63**
30/32	**30032 00101**	32 mm	1 1/4 inch	1	**45,63**
30/33	**30033 00101**	33 mm	1 5/16 inch	1	**46,54**
30/35	**30035 00101**	35 mm	1 3/8 inch	1	**47,77**
30/37	**30037 00101**	37 mm	1 7/16 inch	1	**49,93**
30/38	**30038 00101**	38 mm	1 1/2 inch	1	**49,93**
30/40	**30040 00101**	40 mm	1 9/16 inch	1	**49,93**
30/41	**30041 00101**	41 mm	1 5/8 inch	1	**49,93**
30/43	**30043 00101**	43 mm	1 11/16 inch	1	**58,18**
30/44	**30044 00101**	44 mm	1 3/4 inch	1	**61,16**
30/46	**30046 00101**	46 mm	1 13/16 inch	1	**61,16**
30/48	**30048 00101**	48 mm	1 7/8 inch	1	**61,16**
30/50	**30050 00101**	50 mm	1 31/32 inch	1	**61,16**
30/51	**30051 00101**	51 mm	2 inch	1	**61,16**
30/52	**30052 00101**	52 mm	2 1/16 inch	1	**64,53**
30/54	**30054 00101**	54 mm	2 1/8 inch	1	**71,70**
30/57	**30057 00101**	57 mm	2 1/4 inch	1	**71,70**
30/58	**30058 00101**	58 mm	2 7/25 inch	1	**71,70**
30/59	**30059 00101**	59 mm	2 5/16 inch	1	**71,70**
30/60	**30060 00101**	60 mm	2 3/8 inch	1	**71,70**
30/64	**30064 00101**	64 mm	2 1/2 inch	1	**76,83**
30/65	**30065 00101**	65 mm	2 9/16 inch	1	**76,83**
30/67	**30067 00101**	67 mm	2 5/8 inch	1	**76,83**
30/68	**30068 00101**	68 mm	2 11/16 inch	1	**76,83**
30/70	**30070 00101**	70 mm	2 3/4 inch	1	**76,83**
30/73	**30073 00101**	73 mm	2 7/8 inch	1	**81,20**
30/76	**30076 00101**	76 mm	3 inch	1	**81,20**
30/79	**30079 00101**	79 mm	3 1/8 inch	1	**81,20**
30/83	**30083 00101**	83 mm	3 1/4 inch	1	**81,20**
30/86	**30086 00101**	86 mm	3 3/8 inch	1	**90,98**
30/89	**30089 00101**	89 mm	3 1/2 inch	1	**90,98**
30/92	**30092 00101**	92 mm	3 5/8 inch	1	**99,23**
30/95	**30095 00101**	95 mm	3 3/4 inch	1	**114,21**
30/98	**30098 00101**	98 mm	3 7/8 inch	1	**125,03**
30/102	**30102 00101**	102 mm	4 inch	1	**125,03**
30/105	**30105 00101**	105 mm	4 1/8 inch	1	**144,51**
30/108	**30108 00101**	108 mm	4 1/4 inch	1	**183,42**
30/111	**30111 00101**	111 mm	4 3/8 inch	1	**187,02**
30/114	**30114 00101**	114 mm	4 1/2 inch	1	**187,02**
30/121	**30121 00101**	121 mm	4 3/4 inch	1	**187,02**
30/127	**30127 00101**	127 mm	5 inch	1	**224,88**
30/133	**30133 00101**	133 mm	5 1/4 inch	1	**248,74**
30/140	**30140 00101**	140 mm	5 1/2 inch	1	**260,25**
30/146	**30146 00101**	146 mm	5 3/4 inch	1	**285,84**
30/152	**30152 00101**	152 mm	6 inch	1	**295,89**
30/160	**30160 00101**	160 mm	6 1/3 inch	1	**334,72**
30/168	**30168 00101**	168 mm	6 2/3 inch	1	**382,29**
30/177	**30177 00101**	177 mm	7 inch	1	**400,19**
30/200	**30200 00101**	200 mm	7 7/8 inch	1	**432,92**
30/210	**30210 00101**	210 mm	8 1/4 inch	1	**469,81**
30/235	**30235 00101**	235 mm	9 1/4 inch	1	**540,33**
30/250	**30250 00101**	250 mm	10 inch	1	**633,53**

29

Carota Bi-Metal

• dinti HSS, corp din otel
• pasul dintilor variabil 4/6
• gauri laterale pentru eliminarea materialului aschiat
• materiale: tabla otel, materiale neferoase, fier, fonta, lemn moale sau dur, grinzi, placaj, placi aglometare, lemn furniruit, gips-carton, materiale izolate, plastic



4 - 6
ZpZ • tpi • d/p
Variabel

38 mm

WILPU MADE IN GERMANY

Art.		Dimensiune mm	Dimensiune inch	Ambalare	
29/14	**29014 00001**	14 mm	9/16 inch	1	**31,70**
29/16	**29016 00001**	16 mm	5/8 inch	1	**31,70**
29/17	**29017 00001**	17 mm	11/16 inch	1	**31,70**
29/19	**29019 00001**	19 mm	3/4 inch	1	**31,70**
29/20	**29020 00001**	20 mm	25/32 inch	1	**31,70**
29/21	**29021 00001**	21 mm	13/16 inch	1	**32,88**
29/22	**29022 00001**	22 mm	7/8 inch	1	**32,88**
29/23	**29023 00001**	23 mm	8/9 inch	1	**33,90**
29/24	**29024 00001**	24 mm	15/16 inch	1	**33,90**
29/25	**29025 00001**	25 mm	1 inch	1	**33,90**
29/27	**29027 00001**	27 mm	1 1/16 inch	1	**36,78**
29/29	**29029 00001**	29 mm	1 1/8 inch	1	**37,21**
29/30	**29030 00001**	30 mm	1 3/16 inch	1	**37,63**
29/32	**29032 00001**	32 mm	1 1/4 inch	1	**38,31**
29/33	**29033 00001**	33 mm	1 5/16 inch	1	**41,02**
29/35	**29035 00001**	35 mm	1 3/8 inch	1	**42,04**
29/37	**29037 00001**	37 mm	1 7/16 inch	1	**42,46**
29/38	**29038 00001**	38 mm	1 1/2 inch	1	**44,16**
29/40	**29040 00001**	40 mm	1 9/16 inch	1	**46,53**
29/41	**29041 00001**	41 mm	1 5/8 inch	1	**47,46**
29/43	**29043 00001**	43 mm	1 11/16 inch	1	**48,56**
29/44	**29044 00001**	44 mm	1 3/4 inch	1	**48,56**
29/46	**29046 00001**	46 mm	1 13/16 inch	1	**48,82**
29/48	**29048 00001**	48 mm	1 7/8 inch	1	**50,51**
29/51	**29051 00001**	51 mm	2 inch	1	**50,85**
29/52	**29052 00001**	52 mm	2 1/16 inch	1	**51,19**
29/54	**29054 00001**	54 mm	2 1/8 inch	1	**57,12**
29/57	**29057 00001**	57 mm	2 1/4 inch	1	**57,12**
29/58	**29058 00001**	58 mm	2 7/25 inch	1	**57,12**
29/59	**29059 00001**	59 mm	2 5/16 inch	1	**58,14**
29/60	**29060 00001**	60 mm	2 3/8 inch	1	**58,14**
29/64	**29064 00001**	64 mm	2 1/2 inch	1	**61,02**
29/65	**29065 00001**	65 mm	2 9/16 inch	1	**61,02**
29/67	**29067 00001**	67 mm	2 5/8 inch	1	**61,62**
29/68	**29068 00001**	68 mm	2 11/16 inch	1	**61,62**
29/70	**29070 00001**	70 mm	2 3/4 inch	1	**65,26**
29/73	**29073 00001**	73 mm	2 7/8 inch	1	**68,74**
29/76	**29076 00001**	76 mm	3 inch	1	**65,26**
29/79	**29079 00001**	79 mm	3 1/8 inch	1	**68,74**
29/83	**29083 00001**	83 mm	3 1/4 inch	1	**72,63**
29/86	**29086 00001**	86 mm	3 3/8 inch	1	**73,99**
29/89	**29089 00001**	89 mm	3 1/2 inch	1	**74,84**
29/92	**29092 00001**	92 mm	3 5/8 inch	1	**80,86**
29/95	**29095 00001**	95 mm	3 3/4 inch	1	**86,03**
29/98	**29098 00001**	98 mm	3 7/8 inch	1	**90,86**
29/102	**29102 00001**	102 mm	4 inch	1	**104,93**
29/105	**29105 00001**	105 mm	4 1/8 inch	1	**114,76**
29/108	**29108 00001**	108 mm	4 1/4 inch	1	**145,78**
29/111	**29111 00001**	111 mm	4 3/8 inch	1	**148,66**
29/114	**29114 00001**	114 mm	4 1/2 inch	1	**156,54**
29/121	**29121 00001**	121 mm	4 3/4 inch	1	**165,27**
29/127	**29127 00001**	127 mm	5 inch	1	**178,58**
29/133	**29133 00001**	133 mm	5 1/4 inch	1	**197,39**
29/140	**29140 00001**	140 mm	5 1/2 inch	1	**206,80**
29/146	**29146 00001**	146 mm	5 3/4 inch	1	**227,06**
29/152	**29152 00001**	152 mm	6 inch	1	**235,19**

1900

Carote Bi-Metal

• pentru gaurire in table de otel, metale neferoase (aluminiu), plastic, lemn, placaj etc.
• material: HSS Bi-Metal, cu pas variabil pentru eliminarea vibratiilor
• adancimea de taiere: 38 mm



BOC BOHRCRAFT

HSS | 4 - 6 TPI

	DIM(mm)	DIM.(inch)	LUNGIME	AMB	
19000900014	14	9/16"	38	1	26,50
19000900016	16	5/8"	38	1	27,12
19000900017	17	11/16"	38	1	22,65
19000900019	19	3/4"	38	1	23,27
19000900020	20	-	38	1	25,58
19000900021	21	13/16"	38	1	29,12
19000900022	22	7/8"	38	1	24,19
19000900024	24	15/16"	38	1	25,27
19000900025	25	1"	38	1	27,43
19000900027	27	-	38	1	28,66
19000900029	29	-	38	1	30,67
19000900030	30	1 3/16"	38	1	32,67
19000900032	32	1 1/4"	38	1	32,67
19000900033	33	1 5/16"	38	1	34,67
19000900035	35	1 3/8"	38	1	38,06
19000900037	37	1 7/16"	38	1	39,91
19000900038	38	1 1/2"	38	1	36,98
19000900040	40	1 9/16"	38	1	36,98
19000900041	41	1 5/8"	38	1	39,91
19000900043	43	1 11/16"	38	1	39,91
19000900044	44	1 3/4"	38	1	42,22
19000900045	45	-	38	1	44,07
19000900046	46	1 13/16"	38	1	45,61
19000900048	48	1 7/8"	38	1	43,61
19000900050	50	-	38	1	48,70
19000900051	51	2"	38	1	45,92
19000900052	52	2 1/16"	38	1	50,85
19000900054	54	2 1/8"	38	1	48,85
19000900055	55	-	38	1	49,47
19000900056	56	-	38	1	54,24
19000900057	57	2 1/4"	38	1	49,93
19000900059	59	2 5/16"	38	1	56,09
19000900060	60	2 3/8"	38	1	53,63
19000900064	64	2 1/2"	38	1	63,49
19000900065	65	2 9/16"	38	1	56,40
19000900067	67	2 5/8"	38	1	60,41
19000900068	68	2 11/16"	38	1	64,10
19000900070	70	2 3/4"	38	1	66,26
19000900073	73	2 7/8"	38	1	67,03
19000900075	75	-	38	1	64,72
19000900076	76	3"	38	1	71,66
19000900079	79	3 1/8"	38	1	74,12
19000900083	83	3 1/4"	38	1	77,51
19000900086	86	3 3/8"	38	1	79,36
19000900089	89	3 1/2"	38	1	88,61
19000900092	92	3 5/8"	38	1	92,46
19000900095	95	3 3/4"	38	1	93,69
19000900098	98	3 7/8"	38	1	95,85
19000900102	102	4"	38	1	99,24
19000900105	105	4 1/8"	38	1	104,63
19000900108	108	4 1/4"	38	1	106,33
19000900111	111	4 3/8"	38	1	106,79
19000900114	114	4 1/2"	38	1	112,65
19000900121	121	4 3/4"	38	1	121,28
19000900127	127	5"	38	1	129,75
19000900133	133	5 1/4"	38	1	138,53
19000900140	140	5 1/2"	38	1	147,01
19000900152	152	6"	38	1	210,96
19000900168	168	6 5/8"	38	1	295,25
19000900210	210	8 9/32"	38	1	368,60

31

Carote Bi-Metal 8% Cobalt 10 TPI

• dantura fina, 10 tpi, realizata din bimetal de inaltă calitate, aliat cu cobalt pentru taieri curate si rapide si o durata lunga de viata
• placuta baza masiva asigura o taiere neteda si gauri precise pentru suruburi, cabluri si conducte
• ideala pentru: otel si otel inoxidabil, tabla de metal de pana la 1 mm.



MADE IN GERMANY
bi 8% COBALT
10 ZpZ • tpi • d/p
38 mm

WILPU MADE IN GERMANY | LONG LIFE | NIROSTA STAINLESS INOX

Art.		Dimensiune mm	Dimensiune inch	Ambalare	
31/14	31014 00101	14 mm	9/16 inch	1	52,86
31/16	31016 00101	16 mm	5/8 inch	1	52,86
31/17	31017 00101	17 mm	11/16 inch	1	52,86
31/19	31019 00101	19 mm	3/4 inch	1	52,86
31/20	31020 00101	20 mm	25/32 inch	1	56,09
31/21	31021 00101	21 mm	13/16 inch	1	56,09
31/22	31022 00101	22 mm	7/8 inch	1	56,09
31/23	31023 00101	23 mm	19/21 inch	1	56,09
31/24	31024 00101	24 mm	15/16 inch	1	59,64
31/25	31025 00101	25 mm	1 inch	1	59,64
31/27	31027 00101	27 mm	1 1/16 inch	1	70,27
31/29	31029 00101	29 mm	1 1/8 inch	1	70,27
31/30	31030 00101	30 mm	1 3/16 inch	1	70,27
31/32	31032 00101	32 mm	1 1/4 inch	1	71,04
31/35	31035 00101	35 mm	1 3/8 inch	1	71,04
31/38	31038 00101	38 mm	1 1/2 inch	1	72,27
31/40	31040 00101	40 mm	1 9/16 inch	1	73,66
31/44	31044 00101	44 mm	1 3/4 inch	1	80,29
31/46	31046 00101	46 mm	1 13/16 inch	1	82,13
31/48	31048 00101	48 mm	1 7/8 inch	1	82,90
31/51	31051 00101	51 mm	2 inch	1	84,45
31/54	31054 00101	54 mm	2 1/8 inch	1	86,45
31/57	31057 00101	57 mm	2 1/4 inch	1	90,30
31/60	31060 00101	60 mm	2 3/8 inch	1	95,54
31/64	31064 00101	64 mm	2 1/2 inch	1	99,24
31/65	31065 00101	65 mm	2 9/16 inch	1	102,32
31/68	31068 00101	68 mm	2 11/16 inch	1	106,94
31/70	31070 00101	70 mm	2 3/4 inch	1	108,33
31/76	31076 00101	76 mm	3 inch	1	89,45
31/79	31079 00101	79 mm	3 1/8 inch	1	89,32
31/83	31083 00101	83 mm	3 17/64 inch	1	113,26
31/105	31105 00101	105 mm	4 1/8 inch	1	201,25
31/127	31127 00101	127 mm	5 inch	1	313,13

31 XL

Carote Bi-Metal 8% Cobalt extralungi pentru ferestre si obloane 10 TPI

• carote speciale WILPU Bi-Metal cu 8% Cobalt 10 TPI pentru gauriri pentru montarea ramelor ferestrelor si obloanelor
• adancime de taiere 100 mm



MADE IN GERMANY

WILPU MADE IN GERMANY | LONG LIFE | Plastico PVC

bi 8% COBALT
10 ZpZ • tpi d/p
100 mm

Art.		Dimensiune mm	Dimensiune inch	Ambalare	
31/17 XL	31917 00101	17 mm	11/16 inch	1	253,03
31/22 XL	31922 00101	22 mm	7/8 inch	1	266,28
31/25 XL	31925 00101	25 mm	1 inch	1	279,84

EKS

Set de carote pentru instalatori

• dantura variabila de 4/6 si 10 tpi de inalta calitate, bi-metal aliat cu cobalt pentru taieri curate si rapide si o durata lunga de viata.
• suportul masiv posterior asigura o taiere neteda si gauri precise pentru prize, filete, cabluri si conducte.
• in special pentru: lemn, placi de ghips, materiale plastice, metale neferoase, otel aluminiu si otel inoxidabil minim 1 mm.



MADE IN GERMANY
bi 8% COBALT
4 - 6 tpi Variabel
38 mm
WILPU MADE IN GERMANY

Art.		Componenta	Ambalare	
EKS	**30501 00101**	19 / 25 mm - 10 tpi 32 / 38 / 44 / 57 / 68 mm - 4/6 tpi; ZE 1 (14-30 mm); ZE 5 (32-210 mm)	1	**780,05**

EKE

Set de carote pentru electricieni

• dantura variabila de 4/6 si 10 tpi de inalta calitate, bi-metal aliat cu cobalt pentru taieri curate si rapide si o durata lunga de viata.
• suportul masiv posterior asigura o taiere neteda si gauri precise pentru prize, filete, cabluri si conducte.
• in special pentru: lemn, placi de ghips, materiale plastice, metale neferoase, otel aluminiu si otel inoxidabil minim 1 mm.



MADE IN GERMANY
bi 8% COBALT
4 - 6 tpi Variabel
38 mm
WILPU MADE IN GERMANY

Art.		Componenta	Ambalare	
EKE	**30510 00101**	19 / 25 mm - 10 tpi; 32 / 38 / 44 / 57 / 68 mm - 4/6 tpi; ZE 1 (14-30 mm); ZE 5 (32-210 mm)	1	**767,10**

EKA 3

Set de carote

• dantura variabila de 4/6 si 10 tpi de inalta calitate, bi-metal aliat cu cobalt pentru taieri curate si rapide si o durata lunga de viata.
• suportul masiv posterior asigura o taiere neteda si gauri precise pentru prize, filete, cabluri si conducte.
• in special pentru: lemn, placi de ghips, materiale plastice, metale neferoase, otel aluminiu si otel inoxidabil minim 1 mm.



MADE IN GERMANY
bi 8% COBALT
4 - 6 tpi Variabel
38 mm
WILPU MADE IN GERMANY

Art.		Componenta	Ambalare	
EKA 3	**30550 00101**	19 / 22 / 25 mm - 10 tpi; 32 / 35 / 38 / 44 / 57 / 68 / 76 mm - 4/6 tpi; ZE 2 (14-30 mm); ZE 5 (32-210 mm)	1	**950,32**

EKAR

Set de carote

• dantura variabila de 4/6 si 10 tpi de inalta calitate, bi-metal aliat cu cobalt pentru taieri curate si rapide si o durata lunga de viata.
• suportul masiv posterior asigura o taiere neteda si gauri precise pentru prize, filete, cabluri si conducte.
• in special pentru: lemn, placi de ghips, materiale plastice, metale neferoase, otel aluminiu si otel inoxidabil minim 1 mm.



MADE IN GERMANY
bi 8% COBALT
4 - 6 tpi Variabel
38 mm
WILPU MADE IN GERMANY

Art.		Componenta	Ambalare	
EKAR	**30560 00101**	19 / 22 / 25 mm - tpi; 32 / 38 / 44 / 57 / 68 / 76 mm - 4/6 tpi; ZE 10 (14-210 mm); 3 x Ø 14-30S mm; 6 x Ø 32-210S mm; 1 x B32 - 210L	1	**1191,03**

TKS

Set de carote instalatori in cutie MINI-SYSTAINER

• dantura variabila de 4/6 si 10 tpi de inalta calitate, bi-metal aliat cu cobalt pentru taieri curate si rapide si o durata lunga de viata.
• suportul masiv posterior asigura o taiere neteda si gauri precise pentru prize, filete, cabluri si conducte.
• in special pentru: lemn, placi de ghips, materiale plastice, metale neferoase, otel aluminiu si otel inoxidabil minim 1 mm.



MADE IN GERMANY
bi 8% COBALT
4 - 6 tpi Variabel
38 mm
WILPU MADE IN GERMANY

Art.		Componenta	Ambalare	
TKS	**30600 00101**	19 / 25 mm - 10 tpi; 32 / 38 / 44 / 57 / 68 mm - 4/6 tpi; ZE 1 (14-30 mm); ZE 5 (32-210 mm)	1	**914,27**

TKI

Set de carote instalatori in MINI-SYSTAINER

• dantura variabila de 4/6 tpi de inalta calitate, bi-metal aliat cu cobalt pentru taieri curate si rapide si o durata lunga de viata.
• suportul masiv posterior asigura o taiere neteda si gauri precise pentru prize, filete, cabluri si conducte.
• in special pentru: lemn, placi de ghips, materiale plastice, metale neferoase, otel aluminiu si otel inoxidabil minim 1 mm.



MADE IN GERMANY
bi 8% COBALT
4 - 6 tpi Variabel
38 mm
WILPU MADE IN GERMANY

Art.		Componenta	Ambalare	
TKI	**30620 00101**	19 / 24 / 58 / 60 / 68 / 79 mm - 4/6 tpi ZE 1 (14-30 mm); ZE 5 (32-210 mm); ZES	1	**914,42**

TKE

Set de carote electricieni in MINI-SYSTAINER

• dantura variabila de 4/6 si 10 tpi de inalta calitate, bi-metal aliat cu cobalt pentru taieri curate si rapide si o durata lunga de viata.
• suportul masiv posterior asigura o taiere neteda si gauri precise pentru prize, filete, cabluri si conducte.
• in special pentru: lemn, placi de ghips, materiale plastice, metale neferoase, otel aluminiu si otel inoxidabil minim 1 mm.



MADE IN GERMANY
bi 8% COBALT
4-6 tpi Variabel
38 mm
WILPU MADE IN GERMANY
Plastice PVC
Cu,Ni, Ms, Zn
ALU
NIROSTA STAINLESS INOX
LONG LIFE

Art.		Componenta	Ambalare	
TKE	**30610 00101**	22 mm - 10 ZpZ;	1	**1018,13**
		35 / 51 / 57 / 68 / 76 mm - 4/6 ZpZ; ZE 1 (14-30 mm); ZE 5 (32-210 mm); ZES		

30991 00000

Expozitor carote Bi-metal 8% Cobalt

• dantura variabila de 4/6 tpi de inalta calitate, bi-metal aliat cu cobalt pentru taieri curate si rapide si o durata lunga de viata.
• suportul masiv posterior asigura o taiere neteda si gauri precise pentru prize, filete, cabluri si conducte.
• in special pentru: lemn, placi de ghips, materiale plastice, metale neferoase, otel aluminiu si otel inoxidabil minim 1 mm.





WILPU MADE IN GERMANY
bi 8% COBALT
38 mm
Plastice PVC
Cu,Ni, Ms, Zn
ALU
NIROSTA STAINLESS INOX
LONG LIFE

	Dimensiune mm	Dimensiune	Ambalare	
30991 00000	3x Ø 19 mm	4/6 tpi	1	**4077,75**
	3x Ø 22 mm	4/6 tpi	1	
	3x Ø 25 mm	4/6 tpi	1	
	3x Ø 29 mm	4/6 tpi	1	
	3x Ø 38 mm	4/6 tpi	1	
	3x Ø 44 mm	4/6 tpi	1	
	3x Ø 51 mm	4/6 tpi	1	
	3x Ø 57 mm	4/6 tpi	1	
	3x Ø 65 mm	4/6 tpi	1	
	3x Ø 68 mm	4/6 tpi	1	
	3x Ø 76 mm	4/6 tpi	1	
	3x Ø 83 mm	4/6 tpi	1	
	3x Ø 92 mm	4/6 tpi	1	
	3x ZE 2 / 9.5 mm	14 - 30 mm	1	
	3x ZE 4 / 11 mm	14 - 30 mm	1	
	3x ZE 4 A / 9.5 mm	32 - 210 mm	1	

HMS-2

Set carote placate T.C.T. 60 mm

• pentru taieri rapide si agresive datorita canalelor mari de evacuare
• pentru materiale de pana la 60 mm



WILPU MADE IN GERMANY
60 mm
LONG LIFE

Art.		Componenta	Ambalare	
HMS-2	**33620 00001**	15 piese	1	**1350,83**
		Ø 19, 22, 25, 32, 35, 38, 44, 51, 57, 68, 76 mm; ZE2 B, ZE4 B, ZEV, ZES		

HMS-3

Set carote placate T.C.T. 60 mm

• pentru taieri rapide si agresive datorita canalelor mari de evacuare
• pentru materiale de pana la 60 mm



WILPU MADE IN GERMANY
60 mm
LONG LIFE

Art.		Componenta	Ambalare	
HMS-3	**33630 00001**	15 piese	1	**1437,74**
		Ø 16, 20, 22, 25, 29, 35, 44, 51, 64, 68, 76, 82 mm; ZE2 B, ZE4 B, ZES		

1910

Arbori pentru carote

• executie din otel aliat, tratament termic
• prinderea pe filet M14
• burghiul de centrare, executie din HSS



BOC BOHRCRAFT
AS 1 / AS 11
AS 3 / AS 33
AS 4
AS 6

	DIM(mm)	DIM.(inch)	LUNGIME	AMB	
19100900001	AS 1	SW 11	14-30 mm	1	**41,76**
19100900011	AS 11	SW 9,5	14-30 mm	1	**36,37**
19100900003	AS 3	SW 11	32-210 mm	1	**65,80**
19100900033	AS 33	SW 9,5	32-210 mm	1	**64,10**
19100900004	AS 4	SDS-plus	14-30 mm	1	**46,23**
19100900006	AS 6	SDS-plus	32-210 mm	1	**65,80**

ZE 1

Arbore carote rotund 6 mm (14-30 mm)

- *diametru prindere: 6 mm*
- *pentru carote cu diametre: 14-30 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 1	**30301 00001**	6 mm	14-30 mm	1	**33,44**

ZE 2

Arbore carote hexagonal 9,5 mm (14-30 mm)

- *coada hexagonala 9,5 mm*
- *pentru carote cu diametre: 14-30 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 2	**30302 00001**	9,5 mm	14-30 mm	1	**46,82**

ZE 2B

Arbore carote hexagonal 9,5 mm (14-30 mm) cu burghiu de centrare de 102 mm

- *coada hexagonala 9,5 mm*
- *burghiu de centrare lung 102 mm*
- *pentru carote cu diametre: 14-30 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 2B	**30313 00001**	9,5 mm	14-30 mm	1	**47,68**

ZE 3

Arbore carote hexagonal 11 mm (14-30 mm)

- *coada hexagonala 11 mm*
- *pentru carote cu diametre: 14-30 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 3	**30303 00001**	11 mm	14-30 mm	1	**40,67**

ZE 4

Arbore carote hexagonal 11 mm (32-210 mm)

- *coada hexagonala 11 mm*
- *pentru carote cu diametre: 32-210 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 4	**30304 00001**	11 mm	32-210 mm	1	**72,91**

ZE 4A

Arbore carote hexagonal 9,5 mm (32-210 mm)

- *coada hexagonala 9,5 mm*
- *pentru carote cu diametre: 32-210 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 4A	**30308 00001**	9,5 mm	32-210 mm	1	**72,91**

ZE 4B

Arbore carote hexagonal 11 mm (32-210 mm) cu burghiu de centrare de 102 mm

- *coada hexagonala 11 mm*
- *burghiu de centrare lung 102 mm*
- *pentru carote cu diametre: 32-210 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 4B	**30312 00001**	11 mm	32-210 mm	1	**64,72**

ZE 5

Arbore carote hexagonal 11 mm (32-10 mm), cu eliberare rapida

- *coada hexagonala 11 mm*
- *pentru carote cu diametre: 32-210 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 5	**30305 00001**	11 mm	32-210 mm	1	**47,77**

ZE 6

Arbore carote SDS-plus (14-30 mm)

- *coada: SDS-plus*
- *pentru carote cu diametre: 14-30 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune	Diametru carote	Ambalare	
ZE 6	**30306 00001**	SDS-plus	14-30 mm	1	**52,39**

ZE 7

Arbore carote SDS-plus (32-210 mm)

- *coada: SDS-plus*
- *pentru carote cu diametre: 32-210 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune	Diametru carote	Ambalare	
ZE 7	**30307 00001**	SDS-plus	32-210 mm	1	**74,96**

ZE 8

Arbore carote hexagonal 9,5 mm (32-10 mm), cu arc ejector

- *coada hexagonala 9,5 mm*
- *pentru carote cu diametre: 32-210 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 8	**30310 00001**	9,5 mm	32-210 mm	1	**167,79**

ZE 8B

Arbore carote hexagonal 9,5 mm (32-210 mm) cu burghiu de centrare de 102 mm si arc ejector

- *coada hexagonala 9,5 mm*
- *burghiu de centrare lung 102 mm*
- *pentru carote cu diametre: 32-210 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 8B	**30314 00001**	9,5 mm	32-210 mm	1	**168,90**

ZE 9

Arbore carote hexagonal 11 mm (14-30 mm), cu burghiu de centrare de 180 mm

- *coada hexagonala 11 mm*
- *burghiu de centrare lung 180 mm*
- *pentru carote cu diametre: 14-30 mm*
- *potrivit pentru carote Art. 31XL*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 9	**30309 00001**	11 mm	14-30 mm	1	**139,08**

ZE 11

Arbore carote hexagonal 11 mm (32-210 mm), extralung cu arc ejector

- *coada hexagonala 11 mm*
- *adancime de tăiere: 65 mm*
- *include ghidaj de 210 mm*
- *pentru carote cu diametre: 32-210 mm*
- *potrivit pentru carote Art. 33XL*
- *necesita pregaurire de 10 mm pentru dornul de ghidare*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 11	**30316 00001**	11 mm	32-210 mm	1	**247,53**

ZEV 9.5

Prelungitor hexagonal 9,5 mm pentru carote

- *prelungitor pentru arbori: ZE2, ZE4A, ZE8*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Dimensiune inch	Ambalare	
ZEV 9.5	**30401 00002**	9.5 mm	-	1	**64,59**

ZEV 11

Prelungitor hexagonal 11 mm pentru carote

- *prelungitor pentru arbori: ZE 3 / ZE 4 / ZE 5*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Dimensiune inch	Ambalare	
ZEV 11	**30401 00001**	11 mm	-	1	**64,59**

ZEB1

Burghiu de centrare 83 mm

- *lungime: 83 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Dimensiune inch	Ambalare	
ZEB1	**30410 00001**	83 mm	-	1	**27,91**

ZEB2

Burghiu de centrare 102 mm

- *lungime: 102 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Dimensiune inch	Ambalare	
ZEB2	**30411 00001**	102 mm	-	1	**29,98**

ZEB3

Burghiu de centrare placat T.C.T. 102 mm

- *lungime: 102 mm*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Dimensiune inch	Ambalare	
ZEB3	**30412 00001**	102 mm	-	1	**35,73**

ZEB4

Burghiu de centrare 185 mm

- *lungime: 185 mm*
- *potrivit pentru carote Art. 31XL*



Art.		Dimensiune mm	Dimensiune inch	Ambalare	
ZEB4	**30414 00001**	185 mm	-	1	**38,12**

ZEB5

Dorn de ghidare

- *pentru lungime maxima de gaurire: 165 mm*
- *utilizare cu arbore carote hexagonal 11 mm (32-210 mm), extralung cu arc ejector*
- *potrivit pentru carote Art. 33/S*



Art.		Dimensiune mm	Dimensiune inch	Ambalare	
ZEB5	**30415 00001**	max. 165 mm	-	1	**102,55**

ZES

Arc ejector pentru carote

- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Dimensiune inch	Ambalare	
ZES	**30420 00001**	-	-	1	**6,93**

ZEA

Adaptor pentru arbori carote

- *adaptor pentru arbori: ZE1 / ZE2 / ZE3 / ZE6*
- *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Dimensiune inch	Ambalare	
ZEA	**30430 00001**	-	-	1	**12,33**

ZEI

Surub cu cap imbus pentru arbori carote

- *potrivit pentru toate modelele de arbori de carote*



Art.		Dimensiune mm	Dimensiune inch	Ambalare	
ZEI	**30431 00001**	-	-	1	**1,70**

UL-ZE 1

Arbore cu coada SDS-plus pentru carote T.C.T.

- *coada de preindere SDS-plus*
- *lungime: 118 mm*
- *potrivit pentru carote Art. 33*



Art.		Prindere	Lungime	Ambalare	
UL-ZE 1	**33301 00001**	SDS-Plus	118 mm	1	**250,59**

UL-ZE 2

Arbore cu coada hexagonala pentru carote T.C.T.

- *coada de preindere hexagonala: 11 mm*
- *lungime: 118 mm*
- *potrivit pentru carote Art. 33*



Art.		Prindere	Lungime	Ambalare	
UL-ZE 2	**33302 00001**	Hex. 11 mm	118 mm	1	**253,92**

UL-ZEB 1

Burghiu de centrare placat T.C.T.

- *potrivit pentru arborii de carote: UL-ZE 1 si UL-ZE 2*
- *lungime: 120 mm*



Art.		Prindere	Lungime	Ambalare	
UL-ZEB 1	**33401 00001**	-	120 mm	1	**39,54**

UL-ZEB 2

Burghiu de centrare HSS

- *potrivit pentru arborii de carote: UL-ZE 1 si UL-ZE 2*
- *lungime: 109 mm*



Art.		Prindere	Lungime	Ambalare	
UL-ZEB 2	**33402 00001**	-	109 mm	1	**34,36**

>>RE-LOAD<<

Sistem cu eliberare rapida pentru carote

Potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S

• schimbare rapida a arborelui intre diferite diametre si diferite tipuri de carote
• un singur arbore pentru toate diametrele cuprinse intre 14 - 210 mm
• concentricitate absoluta si diametru real pentru fiecare dimensiune
• design compact "heavy duty" pentru cele mai inalte exigente si o durata de viata foarte lunga
• nu este nevoie de consumatoare de timp pentru a fixa gaura de pe gaura arborelui
• potrivit tuturor brandurilor carote de pe piata*

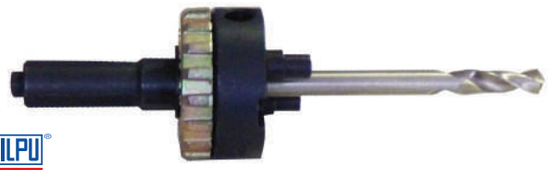
** cu filet de 1/2" (20 UNF) sau 5/8" (18 UNF)*



ZE 10

Arbore RE-LOAD® pentru carote

• *coada hexagonala 9,5 mm*
• *pentru carote cu diametrul: 14-210 mm*
• *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiune mm	Diametru carote	Ambalare	
ZE 10	**30315 00001**	9,5 mm	14-210 mm	1	**148,97**

RL ZEB4

Burghiu de centrare pentru arborele RE-LOAD®

• *material burghiu: HSS*
• *lungime: 100 mm*



Art.		Lungime	Ambalare	
RL ZEB4	**30413 00001**	100 mm	1	**28,71**

RL B14-30S

Set adaptoare RE-LOAD® pentru carote

• *se utilizeaza cu arborele pentru carote RE-LOAD®*
• *dimensiuni: 5 x Ø 14-30 mm*
• *pentru carote cu diametrul: 14-30 mm*
• *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiuni	Ambalare	
RL B14-30S	**30434 00005**	5 x Ø 14-30 mm	1	**169,38**

RL B32-210S

Set adaptoare RE-LOAD® pentru carote

• *se utilizeaza cu arborele pentru carote RE-LOAD®*
• *dimensiuni: 5 x Ø 32-210 mm*
• *pentru carote cu diametrul: 32-210 mm*
• *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiuni	Ambalare	
RL B32-210S	**30432 00005**	5 x Ø 32-210 mm	1	**175,92**

RLAS 1

Set adaptoare RE-LOAD® pentru carote

• *se utilizeaza cu arborele pentru carote RE-LOAD®*
• *dimensiuni: 2 x Ø14-30 mm; 3 x Ø 32-210 mm*
• *pentru carote cu diametrul: 14-210 mm*
• *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Dimensiuni	Ambalare	
RLAS1	**30433 00005**	2 x Ø14-30 mm; 3 x Ø 32-210 mm	1	**173,37**

RL B14-30L

Adaptor RE-LOAD® pentru carote 14-30 mm

• *se utilizeaza cu arborele pentru carote RE-LOAD®*
• *pentru carote cu diametrul: 14-30 mm*
• *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Diametru carote	Ambalare	
RL B14-30L	**30433 00001**	1 x Ø 14-30 mm	1	**36,68**

RL B32-210L

Adaptor RE-LOAD® pentru carote 32-210 mm

• *se utilizeaza cu arborele pentru carote RE-LOAD®*
• *pentru carote cu diametrul: 32-210 mm*
• *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Diametru carote	Ambalare	
RL B32-210L	**30435 00001**	1 x Ø 32-210 mm	1	**38,28**

RL B14-210L

Set adaptoare RE-LOAD® pentru carote 14-210 mm

• *se utilizeaza cu arborele pentru carote RE-LOAD®*
• *2 adaptoare pentru carote cu diametrul: 1 x Ø 14-30 mm si 1 x Ø 32-210 mm*
• *potrivit pentru carote Art. 30, Art. 31, Art. 31XL, Art. 32, Art. 33/S*



Art.		Diametru carote	Ambalare	
RL B14-210L	**30436 00002**	1 x Ø 14-30 mm / 1 x Ø 32-210 mm	1	**73,81**

34

Carote placate T.C.T. 12 mm

- *inalta concentricitate si taiere neteda datorita constructiei robuste*
- *gauri precise si curate*
- *placute mari de tungsten pentru reascutire si durata de viata lunga*
- *carota se livreaza cu arbore, burghiu de centrare, arc ejector si cheie imbus*
- *idela pentru otel, otel turnat, otel inoxidabil (pana la 4 mm), otel nichel-crom (pana la 2 mm), metale neferoase, produse ranforsate cu fibra de sticla sau de carbon (CRP, GRP), epoxidice, materiale de tip sandwich (pana la 6 mm)*



WILPU MADE IN GERMANY

12 mm | LONG LIFE | NIROSTA STAINLESS INOX 2-4 mm | <= 4mm | Cu,Ni, Mo,Zn | ALU | <= 6 mm

Art.		Dimensiune mm	Ambalare	
34/15,2 F	**34015 00001**	15,2 mm	1	**197,09**
34/16 F	**34016 00001**	16 mm	1	**197,71**
34/18 F	**34018 00001**	18 mm	1	**197,71**
34/18,6 F	**34019 00001**	18,6 mm	1	**197,71**
34/20 F	**34020 00001**	20 mm	1	**197,71**
34/21 F	**34021 00001**	21 mm	1	**197,71**
34/22 F	**34022 00001**	22 mm	1	**197,71**
34/22,5 F	**34023 00001**	22,5 mm	1	**197,71**
34/25 F	**34025 00001**	25 mm	1	**197,71**
34/26 F	**34026 00001**	26 mm	1	**222,67**
34/27 F	**34027 00001**	27 mm	1	**222,67**
34/28,3 F	**34028 00001**	28,3 mm	1	**222,67**
34/30 F	**34030 00001**	30 mm	1	**222,67**
34/35 F	**34035 00001**	35 mm	1	**237,00**
34/37 F	**34037 00001**	37 mm	1	**271,83**
34/40 F	**34040 00001**	40 mm	1	**271,83**
34/45 F	**34045 00001**	45 mm	1	**296,18**
34/47 F	**34047 00001**	47 mm	1	**372,46**
34/50 F	**34050 00001**	50 mm	1	**372,46**
34/51 F	**34051 00001**	51 mm	1	**379,24**
34/54 F	**34054 00001**	54 mm	1	**379,24**
34/55 F	**34055 00001**	55 mm	1	**379,24**
34/60 F	**34060 00001**	60 mm	1	**520,70**
34/65 F	**34065 00001**	65 mm	1	**520,70**
34/68 F	**34068 00001**	68 mm	1	**561,23**
34/70 F	**34070 00001**	70 mm	1	**592,51**
34/75 F	**34075 00001**	75 mm	1	**636,12**
34/80 F	**34080 00001**	80 mm	1	**636,12**
34/85 F	**34085 00001**	85 mm	1	**713,48**
34/90 F	**34090 00001**	90 mm	1	**784,05**
34/95 F	**34095 00001**	95 mm	1	**853,70**
34/100 F	**34100 00001**	100 mm	1	**947,24**
HM-ZEB Flach	**34410 00001**	burghiu centrare	1	**37,45**
HM-ZES	**34420 00001**	arc ejector	1	**3,08**

1950

Carota HSS cu prindere Weldon (3/4") lungime 110 mm

- *material HSS, tratament termic integral*
- *recomandate pentru otel (table cu grosimi mari), profile sau tevi din otel ne aliat si aliat, sine de cale ferata, inclusiv otel inoxidabil V2A si V4A, , piese turnate din otel, metale feroase si neferoase*
- *se utilizeaza pe toate tipurile de masini de gaurit cu talpa magnetica cu prindere pe con cu adaptor WELDON, precum si pe masini stationare de frezat*



BOC BOHRCRAFT | PROFI by BOHRCRAFT PLUS | HSS | CBN | WELDON | EXTRA LANGE EXTRA LONG Version 110 mm

	DIM. (mm)	Weldon (mm)	LUNGIME	AMB	
19500302011	20,0	19	110	1	**604,37**
19500302111	21,0	19	110	1	**646,44**
19500302211	22,0	19	110	1	**748,92**
19500302311	23,0	19	110	1	**753,23**
19500302411	24,0	19	110	1	**779,43**
19500302511	25,0	19	110	1	**840,91**
19500302611	26,0	19	110	1	**874,05**
19500302711	27,0	19	110	1	**946,01**
19500302811	28,0	19	110	1	**1049,26**
19500302911	29,0	19	110	1	**1094,87**
19500303011	30,0	19	110	1	**1129,85**
19500303111	31,0	19	110	1	**1147,42**
19500303211	32,0	19	110	1	**1164,98**

1952

Carota placta HM cu prindere Weldon (3/4") lungime 35 mm

- *carota placta HM cu prindere Weldon (3/4") lungime 35 mm*
- *material corp carota – otel aliat, cu placute din carbura metalica - HM*
- *recomandate pentru otel (table cu grosimi mari), profile sau tevi din otel ne aliat si aliat, sine de cale ferata, inclusiv otel inoxidabil V2A si V4A, , piese turnate din otel, metale feroase si neferoase*
- *se utilizeaza pe toate tipurile de masini de gaurit cu talpa magnetica cu prindere pe con cu adaptor WELDON, precum si pe masini stationare de frezat*



BOC BOHRCRAFT | PROFI by BOHRCRAFT PLUS | HM TCT | WELDON | KURZE SHORT Version 35 mm

	DIM. (mm)	Weldon (mm)	LUNGIME	AMB	
19520301435	14,0	19	35	1	**423,92**
19520301535	15,0	19	35	1	**423,92**
19520301635	16,0	19	35	1	**425,93**
19520301735	17,0	19	35	1	**428,39**
19520301835	18,0	19	35	1	**429,32**
19520301935	19,0	19	35	1	**430,09**
19520302035	20,0	19	35	1	**430,09**
19520302135	21,0	19	35	1	**435,17**
19520302235	22,0	19	35	1	**435,17**
19520302335	23,0	19	35	1	**436,25**
19520302435	24,0	19	35	1	**439,64**
19520302535	25,0	19	35	1	**441,34**
19520302635	26,0	19	35	1	**453,67**
19520302735	27,0	19	35	1	**453,67**
19520302835	28,0	19	35	1	**455,67**
19520302935	29,0	19	35	1	**456,29**
19520303135	30,0	19	35	1	**538,57**
19520303235	31,0	19	35	1	**541,19**
19520303035	32,0	19	35	1	**458,29**
19520303535	35,0	19	35	1	**547,36**
19520304035	40,0	19	35	1	**624,56**
19520304535	45,0	19	35	1	**755,85**
19520305035	50,0	19	35	1	**847,85**
19520305535	55,0	19	35	1	**1038,93**
19520306035	60,0	19	35	1	**1156,35**

1952

Carota placta HM cu prindere Weldon (3/4") lungime 55 mm

- *carota placta HM cu prindere Weldon (3/4") lungime 55 mm*
- *material corp carota – otel aliat, cu placute din carbura metalica - HM*
- *recomandate pentru otel (table cu grosimi mari), profile sau tevi din otel ne aliat si aliat, sine de cale ferata, inclusiv otel inoxidabil V2A si V4A, , piese turnate din otel, metale feroase si neferoase*
- *se utilizeaza pe toate tipurile de masini de gaurit cu talpa magnetica cu prindere pe con cu adaptor WELDON, precum si pe masini stationare de frezat*



PROFI by BOHRCRAFT PLUS | HM TCT | WELDON | LANGE LONG Version 50 mm

	DIM. (mm)	Weldon (mm)	LUNGIME	AMB	
19520301455	14,0	19	55	1	476,47
19520301555	15,0	19	55	1	476,47
19520301655	16,0	19	55	1	478,17
19520301755	17,0	19	55	1	480,94
19520301855	18,0	19	55	1	481,71
19520301955	19,0	19	55	1	482,64
19520302055	20,0	19	55	1	482,64
19520302155	21,0	19	55	1	487,88
19520302255	22,0	19	55	1	487,88
19520302355	23,0	19	55	1	488,65
19520302455	24,0	19	55	1	492,34
19520302550	25,0	19	55	1	494,04
19520302655	26,0	19	55	1	506,21
19520302755	27,0	19	55	1	506,21
19520302855	28,0	19	55	1	523,01
19520302955	29,0	19	55	1	523,01
19520303055	30,0	19	55	1	525,63
19520303155	31,0	19	55	1	642,90
19520303255	32,0	19	55	1	646,44
19520303555	35,0	19	55	1	655,23
19520304055	40,0	19	55	1	739,21
19520304555	45,0	19	55	1	853,86
19520305055	50,0	19	55	1	924,90
19520305555	55,0	19	55	1	1109,82
19520306055	60,0	19	55	1	1276,24

1952

Carota placta HM cu prindere Weldon (3/4") lungime 110 mm

- *carota placta HM cu prindere Weldon (3/4") lungime 110 mm*
- *material corp carota – otel aliat, cu placute din carbura metalica - HM*
- *recomandate pentru otel (table cu grosimi mari), profile sau tevi din otel ne aliat si aliat, sine de cale ferata, inclusiv otel inoxidabil V2A si V4A, , piese turnate din otel, metale feroase si neferoase*
- *se utilizeaza pe toate tipurile de masini de gaurit cu talpa magnetica cu prindere pe con cu adaptor WELDON, precum si pe masini stationare de frezat*



PROFI by BOHRCRAFT PLUS | HM TCT | WELDON | EXTRA LANGE EXTRA LONG Version 110 mm

	DIM. (mm)	Weldon (mm)	LUNGIME	AMB	
19520302011	20,0	19	110	1	824,12
19520302111	21,0	19	110	1	824,12
19520302211	22,0	19	110	1	824,12
19520302311	23,0	19	110	1	824,12
19520302411	24,0	19	110	1	824,12
19520302511	25,0	19	110	1	824,12
19520302611	26,0	19	110	1	901,63
19520302711	27,0	19	110	1	901,63
19520302811	28,0	19	110	1	901,63
19520302911	29,0	19	110	1	901,63
19520303011	30,0	19	110	1	901,63
19520303111	31,0	19	110	1	1097,95
19520303211	32,0	19	110	1	1097,95

1951

Carota HSS (Co8%) cu prindere Weldon (3/4") lungime 30 mm

- *carota HSS-EE (Co8%) cu prindere Weldon (3/4") lungime 30 mm*
- *material HSS-EE (Co8%), tratament termic integral,*
- *faciliteaza aschierea cu viteze mari*
- *recomandate pentru otel (table cu grosimi mari), profile sau tevi din otel ne aliat si aliat, otel inoxidabil (V2A si V4A), piese turnate din otel, metale neferoase*
- *se utilizeaza pe toete tipurile de masini de gaurit cu talpa magnetica cu prindere pe con cu adaptor WELDON, precum si pe masini stationare de frezat*



PROFI by BOHRCRAFT PLUS | HSS-E Co8 | CBN | WELDON | KURZ SHORT Version 30 mm

	DIM. (mm)	Weldon (mm)	LUNGIME	AMB	
19510301225	12,0	19	30	1	239,16
19510301325	13,0	19	30	1	249,49
19510301425	14,0	19	30	1	236,54
19510301525	15,0	19	30	1	271,52
19510301625	16,0	19	30	1	275,99
19510301725	17,0	19	30	1	286,47
19510301825	18,0	19	30	1	270,60
19510301925	19,0	19	30	1	302,19
19510302025	20,0	19	30	1	320,68
19510302125	21,0	19	30	1	338,09
19510302225	22,0	19	30	1	332,85
19510302325	23,0	19	30	1	364,44
19510302425	24,0	19	30	1	374,92
19510302525	25,0	19	30	1	402,04
19510302625	26,0	19	30	1	393,26
19510302725	27,0	19	30	1	424,85
19510302825	28,0	19	30	1	437,95
19510302925	29,0	19	30	1	448,43
19510303025	30,0	19	30	1	481,71
19510303125	31,0	19	30	1	495,73
19510303225	32,0	19	30	1	506,21
19510303525	35,0	19	30	1	681,42
19510304025	40,0	19	30	1	790,99
19510304525	45,0	19	30	1	979,30
19510305025	50,0	19	30	1	1120,30
19510305525	55,0	19	30	1	1463,63
19510306025	60,0	19	30	1	1664,26

1957

Adaptor Weldon 3/4"

- *executie din hotel aliat de scule,*
- *tratat termic integral, suparafete rectificate*



PROFI by BOHRCRAFT PLUS

	DENUMIRE	CAROTA	AMB	
19570300001	Adaptor Weldon 3/4"	Fein M18x6 P1,5	1	478,48
19570300002	Adaptor Weldon 3/4"	Quick-IN	1	478,48
19570300003	Adaptor Quick-IN	Weldon 3/4"	1	478,48

1951

Carota HSS (Co8%) cu prindere Weldon (3/4") lungime 50 mm

- *carota HSS-EE (Co8%) cu prindere Weldon (3/4") lungime 50 mm*
- *carota cu prindere Weldon (3/4") lungime 110 mm*
- *material HSS-EE (Co8%), tratament termic integral,*
- *faciliteaza aschierea cu viteze mari*
- *recomandate pentru otel (table cu grosimi mari), profile sau tevi din otel ne aliat si aliat, otel inoxidabil (V2A si V4A), piese turnate din otel, metale neferoase*
- *se utilizeaza pe toete tipurile de masini de gaurit cu talpa magnetica cu prindere pe con cu adaptor WELDON, precum si pe masini stationare de frezat*



BOHRCRAFT | PROFI by BOHRCRAFT PLUS | HSS-E Co8 | CBN | WELDON | LANGE LONG Version 50 mm

	DIM. (mm)	Weldon (mm)	LUNGIME	AMB	
19510301250	12,0	19	50	1	**271,52**
19510301350	13,0	19	50	1	**286,47**
19510301450	14,0	19	50	1	**314,36**
19510301550	15,0	19	50	1	**348,57**
19510301650	16,0	19	50	1	**384,48**
19510301750	17,0	19	50	1	**394,18**
19510301850	18,0	19	50	1	**385,40**
19510301951	19,0	19	50	1	**440,57**
19510302050	20,0	19	50	1	**465,99**
19510302150	21,0	19	50	1	**477,24**
19510302250	22,0	19	50	1	**476,47**
19510302350	23,0	19	50	1	**510,68**
19510302450	24,0	19	50	1	**533,33**
19510302550	25,0	19	50	1	**557,84**
19510302650	26,0	19	50	1	**558,76**
19510302750	27,0	19	50	1	**607,76**
19510302850	28,0	19	50	1	**625,49**
19510302950	29,0	19	50	1	**642,90**
19510303050	30,0	19	50	1	**681,42**
19510303150	31,0	19	50	1	**705,92**
19510303250	32,0	19	50	1	**718,25**
19510303550	35,0	19	50	1	**801,47**
19510304050	40,0	19	50	1	**960,80**
19510304550	45,0	19	50	1	**1191,18**
19510305050	50,0	19	50	1	**1489,05**
19510305550	55,0	19	50	1	**1699,24**
19510306050	60,0	19	50	1	**1927,00**

1955

Pin pentru carote HSS

- *executie din hotel aliat de scule,*
- *tratat termic integral, suparafete rectificate*



BOHRCRAFT | PROFI by BOHRCRAFT PLUS

	Adancime taiere (mm)	Carote (mm)	AMB	
19550300025	30	12,0-60,0	1	**51,78**
19550300050	50	12,0-60,0	1	**57,02**
19550300110	110	12,0-60,0	1	**209,27**

1956

Adaptor Con Morse - Weldon 3/4" cu sistem intern de lubrifiere

- *executie din hotel aliat de scule,*
- *tratat termic integral, suparafete rectificate*
- *cu sistem intern de lubrefiere / racire*



BOHRCRAFT | PROFI by BOHRCRAFT PLUS

	Con Morse(mm)	Weldon(mm)	LUNGIME	AMB	
19560300219	MK 2	19	-	1	**1200,12**
19560300319	MK 3	19	-	1	**1217,53**

1037001

Carota HSS-TiAlN cu prindere Weldon (3/4") lungime 30 mm

- *carota HSS-TiAlN cu prindere Weldon (3/4") lungime 30 mm*
- *material HSS, tratament termic integral, acoperire TiAlN*
- *faciliteaza aschierea cu viteze mari*
- *recomandate pentru otel (table cu grosimi mari), profile sau tevi din otel ne aliat si aliat cu σr ≤ 950 N/mm², otel inoxidabil (V2A si V4A), piese turnate din otel, fonte si metale neferoase*
- *se utilizeaza pe toete tipurile de masini de gaurit cu talpa magnetica cu prindere pe con cu adaptor WELDON, precum si pe masini stationare de frezat*



TIVOLY | HSS | TiAlN COATED | TIVOLY NORM | Z 4-14 | WELDON 19mm

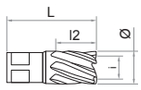
	DIM. (mm)	Weldon (mm)	LUNGIME	AMB	
10370011200	12.0	19	30	1	**213,15**
10370011300	13.0	19	30	1	**216,33**
10370011400	14.0	19	30	1	**218,81**
10370011500	15.0	19	30	1	**219,78**
10370011600	16.0	19	30	1	**220,21**
10370011700	17.0	19	30	1	**235,91**
10370011800	18.0	19	30	1	**237,69**
10370011900	19.0	19	30	1	**233,32**
10370012000	20.0	19	30	1	**251,60**
10370012100	21.0	19	30	1	**258,99**
10370012200	22.0	19	30	1	**269,73**
10370012300	23.0	19	30	1	**279,33**
10370012400	24.0	19	30	1	**288,87**
10370012500	25.0	19	30	1	**298,31**
10370012600	26.0	19	30	1	**306,83**
10370012700	27.0	19	30	1	**329,76**
10370012800	28.0	19	30	1	**343,02**
10370012900	29.0	19	30	1	**355,21**
10370013000	30.0	19	30	1	**364,22**
10370013100	31.0	19	30	1	**396,74**
10370013200	32.0	19	30	1	**394,42**
10370013300	33.0	19	30	1	**433,63**
10370013400	34.0	19	30	1	**444,53**
10370013500	35.0	19	30	1	**489,08**
10370013600	36.0	19	30	1	**501,27**
10370013700	37.0	19	30	1	**529,58**
10370013800	38.0	19	30	1	**536,49**
10370013900	39.0	19	30	1	**556,44**
10370014000	40.0	19	30	1	**570,09**
10370014100	41.0	19	30	1	**592,74**
10370014200	42.0	19	30	1	**624,40**
10370014300	43.0	19	30	1	**637,61**
10370014400	44.0	19	30	1	**682,59**
10370014500	45.0	19	30	1	**704,33**
10370014600	46.0	19	30	1	**718,73**
10370014700	47.0	19	30	1	**742,25**
10370014800	48.0	19	30	1	**776,98**
10370014900	49.0	19	30	1	**788,36**
10370015000	50.0	19	30	1	**807,94**

1037011

Carota HSS-TiAlN cu prindere Weldon (3/4") lungime 50 mm

- *carota HSS-TiAlN cu prindere Weldon (3/4") lungime 50 mm*
- *material HSS, tratament termic integral, acoperire TiAlN*
- *faciliteaza aschierea cu viteze mari*
- *recomandate pentru otel (table cu grosimi mari), profile sau tevi din otel ne aliat si aliat cu σr ≤ 950 N/mm², otel inoxidabil (V2A si V4A), piese turnate din otel, fonte si metale neferoase*
- *se utilizeaza pe toete tipurile de masini de gaurit cu talpa magnetica cu prindere pe con cu adaptor WELDON, precum si pe masini stationare de frezat*





TIVOLY | HSS | TiAlN COATED | TIVOLY NORM | Z 4-14 | WELDON 19mm

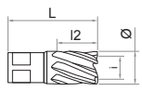
	DIM. (mm)	Weldon (mm)	LUNGIME	AMB	
10370111200	12.0	19	50	1	**315,35**
10370111300	13.0	19	50	1	**316,81**
10370111400	14.0	19	50	1	**318,48**
10370111500	15.0	19	50	1	**320,32**
10370111600	16.0	19	50	1	**323,23**
10370111700	17.0	19	50	1	**325,33**
10370111800	18.0	19	50	1	**326,73**
10370111900	19.0	19	50	1	**330,35**
10370112000	20.0	19	50	1	**345,50**
10370112100	21.0	19	50	1	**354,19**
10370112200	22.0	19	50	1	**365,57**
10370112300	23.0	19	50	1	**389,35**
10370112400	24.0	19	50	1	**401,06**
10370112500	25.0	19	50	1	**403,00**
10370112600	26.0	19	50	1	**421,50**
10370112700	27.0	19	50	1	**450,03**
10370112800	28.0	19	50	1	**469,28**
10370112900	29.0	19	50	1	**488,65**
10370113000	30.0	19	50	1	**509,25**
10370113100	31.0	19	50	1	**533,74**
10370113200	32.0	19	50	1	**557,79**
10370113300	33.0	19	50	1	**584,43**
10370113400	34.0	19	50	1	**606,28**
10370113500	35.0	19	50	1	**631,36**
10370113600	36.0	19	50	1	**659,40**
10370113700	37.0	19	50	1	**670,30**
10370113800	38.0	19	50	1	**694,73**
10370113900	39.0	19	50	1	**744,03**
10370114000	40.0	19	50	1	**764,47**
10370114100	41.0	19	50	1	**772,45**
10370114200	42.0	19	50	1	**849,20**
10370114300	43.0	19	50	1	**874,55**
10370114400	44.0	19	50	1	**898,17**
10370114500	45.0	19	50	1	**907,28**
10370114600	46.0	19	50	1	**972,71**
10370114700	47.0	19	50	1	**988,89**
10370114800	48.0	19	50	1	**1020,12**
10370114900	49.0	19	50	1	**1030,15**
10370115000	50.0	19	50	1	**1035,54**

1037051

Carota HSS cu prindere Weldon (3/4") lungime 30 mm

- *carota HSS cu prindere Weldon (3/4") lungime 30 mm*
- *material HSS, tratament termic integral*
- *faciliteaza aschierea cu viteze mari*
- *recomandate pentru otel (table cu grosimi mari), profile sau tevi din otel ne aliat si aliat, piese turnate din otel cu σr ≤ 700 N/mm², metale neferoase si materiale compozite plastice*
- *se utilizeaza pe toete tipurile de masini de gaurit cu talpa magnetica cu prindere pe con cu adaptor WELDON, precum si pe masini stationare de frezat*





TIVOLY | HSS | BRIGHT UNCOATED | TIVOLY NORM | Z 4-14 | WELDON 19mm

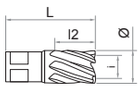
	DIM. (mm)	Weldon (mm)	LUNGIME	AMB	
10370511200	12.0	19	30	1	**146,05**
10370511300	13.0	19	30	1	**148,16**
10370511400	14.0	19	30	1	**149,99**
10370511500	15.0	19	30	1	**150,53**
10370511600	16.0	19	30	1	**150,80**
10370511700	17.0	19	30	1	**161,70**
10370511800	18.0	19	30	1	**162,77**
10370511900	19.0	19	30	1	**159,86**
10370512000	20.0	19	30	1	**172,43**
10370512100	21.0	19	30	1	**177,61**
10370512200	22.0	19	30	1	**184,83**
10370512300	23.0	19	30	1	**191,52**
10370512400	24.0	19	30	1	**198,05**
10370512500	25.0	19	30	1	**204,47**
10370512600	26.0	19	30	1	**210,18**
10370512700	27.0	19	30	1	**225,99**
10370512800	28.0	19	30	1	**234,99**
10370513000	30.0	19	30	1	**249,50**
10370513200	32.0	19	30	1	**270,21**
10370513500	35.0	19	30	1	**335,09**
10370513800	38.0	19	30	1	**367,62**
10370514000	40.0	19	30	1	**390,59**
10370514200	42.0	19	30	1	**427,81**
10370514500	45.0	19	30	1	**482,61**
10370514800	48.0	19	30	1	**532,44**
10370515000	50.0	19	30	1	**553,64**

1037061

Carota HSS cu prindere Weldon (3/4") lungime 50 mm

• carota HSS cu prindere Weldon (3/4") lungime 50 mm
• material HSS, tratament termic integral
• faciliteaza aschierea cu viteze mari
• recomandate pentru otel (table cu grosimi mari), profile sau tevi din otel ne aliat si aliat, piese turnate din otel cu σr ≤ 700 N/mm², metale neferoase si materiale compozite plastice
• se utilizeaza pe toete tipurile de masini de gaurit cu talpa magnetica cu prindere pe con cu adaptor WELDON, precum si pe masini stationare de frezat





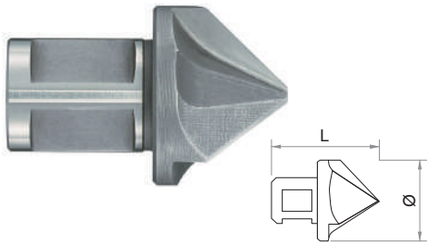
TIVOLY | HSS | BRIGHT UNCOATED | TIVOLY NORM | Z 4-14 | WELDON 19mm

	DIM. (mm)	Weldon (mm)	LUNGIME	AMB	
10370611200	12.0	19	50	1	**216,12**
10370611300	13.0	19	50	1	**216,98**
10370611400	14.0	19	50	1	**218,33**
10370611500	15.0	19	50	1	**219,41**
10370611600	16.0	19	50	1	**221,51**
10370611700	17.0	19	50	1	**222,91**
10370611800	18.0	19	50	1	**223,88**
10370611900	19.0	19	50	1	**226,42**
10370612000	20.0	19	50	1	**236,77**
10370612100	21.0	19	50	1	**242,70**
10370612200	22.0	19	50	1	**250,58**
10370612300	23.0	19	50	1	**266,81**
10370612400	24.0	19	50	1	**274,80**
10370612500	25.0	19	50	1	**276,20**
10370612600	26.0	19	50	1	**288,87**
10370612700	27.0	19	50	1	**308,34**
10370612800	28.0	19	50	1	**321,61**
10370613000	30.0	19	50	1	**348,96**
10370613200	32.0	19	50	1	**382,23**
10370613500	35.0	19	50	1	**432,61**
10370613800	38.0	19	50	1	**476,08**
10370614000	40.0	19	50	1	**523,97**
10370614200	42.0	19	50	1	**581,95**
10370614500	45.0	19	50	1	**621,70**
10370614800	48.0	19	50	1	**699,04**
10370615000	50.0	19	50	1	**709,45**

1037031

Tesitor cu 3 muchii 90º HSS, prindere Weldon 19 mm

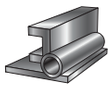
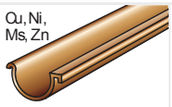
• material: HSS, tratat termic
• unghi la varf: 90º
• coada Weldon 19 mm
• pentru oteluri ne aliate si slab aliate, oteluri pentru tratament termic cu σr ≤ 700 N / mm² , fonte si materiale plastice compozite



TIVOLY | HSS | BRIGHT UNCOATED | TIVOLY NORM | 90° | Z3 | WELDON 19mm

	Ø	d2	L	l1	
10370312500	25		43		**649,26**
10370313000	30		47		**721,86**
10370314000	40		52		**857,40**
10370315500	55		63		**1283,37**

Turatie recomandata la gaurirea cu carote / rpm

Diametru			NIROSTA STAINLESS INOX		 Cu, Ni, Ms, Zn	 ALU
mm Ø	**inch**	otel	otel inoxidabil	fonta	alama	aluminiu
14 mm	9/16 inch	580	300	400	790	900
16 mm	5/8 inch	550	275	365	730	825
17 mm	11/16 inch	500	250	330	665	750
19 mm	3/4 inch	460	230	300	600	690
20 mm	25/32 inch	440	220	290	580	670
21 mm	13/16 inch	425	210	280	560	630
22 mm	7/8 inch	390	195	260	520	585
23 mm	8/9 inch	390	195	260	520	570
24 mm	15/16 inch	370	185	245	495	555
25 mm	1 inch	350	175	235	470	525
27 mm	1 1/16 inch	325	160	215	435	480
29 mm	1 1/8 inch	300	150	200	400	450
30 mm	1 3/16 inch	285	145	190	380	425
32 mm	1 1/4 inch	275	140	180	360	410
33 mm	1 5/16 inch	268	135	175	345	390
35 mm	1 3/8 inch	250	125	165	330	375
37 mm	1 7/16 inch	240	120	160	315	360
38 mm	1 1/2 inch	240	120	160	315	360
40 mm	1 9/16 inch	220	110	145	290	330
41 mm	1 5/8 inch	210	105	140	280	315
43 mm	1 11/16 inch	205	100	135	270	305
44 mm	1 3/4 inch	195	95	130	250	295
46 mm	1 13/16 inch	190	95	125	250	285
48 mm	1 7/8 inch	180	90	120	240	270
51 mm	2 inch	170	85	115	230	255
52 mm	2 1/16 inch	165	80	110	220	245
54 mm	2 1/8 inch	160	80	105	210	240
57 mm	2 1/4 inch	150	75	100	200	225
58 mm	2 7/25 inch	145	75	100	195	225
59 mm	2 5/16 inch	145	75	100	195	225
60 mm	2 3/8 inch	140	70	95	190	220
64 mm	2 1/2 inch	135	65	90	180	205
65 mm	2 9/16 inch	130	65	85	175	200
67 mm	2 5/8 inch	130	65	85	170	195
68 mm	2 11/16 inch	130	65	85	170	195
70 mm	2 3/4 inch	125	60	80	160	185
73 mm	2 7/8 inch	120	60	80	160	180
76 mm	3 inch	115	55	75	150	170
79 mm	3 1/8 inch	110	55	70	140	165
83 mm	3 1/4 inch	105	50	70	140	155
86 mm	3 3/8 inch	100	50	65	130	150
89 mm	3 1/2 inch	95	45	65	130	145
92 mm	3 5/8 inch	95	45	60	120	140
95 mm	3 3/4 inch	90	45	60	120	135
98 mm	3 7/8 inch	90	45	60	120	135
102 mm	4 inch	85	40	55	110	130
105 mm	4 1/8 inch	80	40	55	110	120
108 mm	4 1/4 inch	80	40	55	110	120
111 mm	4 3/8 inch	80	40	50	100	120
114 mm	4 1/2 inch	75	35	50	100	105
121 mm	4 3/4 inch	70	35	45	90	95
127 mm	5 inch	65	30	40	85	90
133 mm	5 1/4 inch	65	30	40	85	90
140 mm	5 1/2 inch	65	30	35	80	85
146 mm	5 3/4 inch	60	30	35	80	85
152 mm	6 inch	55	25	35	75	85
160 mm	6 1/3 inch	55	25	35	75	85
168 mm	6 2/3 inch	55	25	35	75	85
177 mm	7 inch	50	20	30	70	80
200 mm	7 7/8 inch	50	20	30	70	80
210 mm	8 1/4 inch	45	20	30	70	80

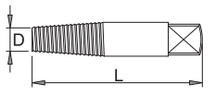
778/4

Extractor de suruburi

- *pentru desurubarea suruburilor ruginite si bolturilor filetate fara a afecta filetele*
- *material:crome vanadium*
- *tratate complet*
- *brunat*



UNIOR



	№	D	■	L	⬭	mm				
616812	1	1.75	3.6	50	M3 - M6	2.5	9	1E	10	**11,97**
616813	2	2.2	5.0	57	M6 - M8	3.0	13	1E	10	**11,97**
616814	3	3.3	6.5	64	M8 - M11	4.5	19	1E	10	**13,52**
616815	4	4.75	8.8	71	M11 - M14	6.0	33	1E	10	**16,44**
616816	5	6.35	11.0	78	M14 - M18	8.0	53	1E	10	**20,48**
616817	6	9.50	15.0	85	M18 - M24	11	102	1E	10	**28,99**

778/4PB

Set extractor de suruburi



UNIOR

616821	1 - 6 / 6	225	1E	1	**116,70**

778/4 (1, 2, 3, 4, 5, 6)

778/4PB

Set extractor de suruburi



UNIOR

616820	1 - 5 / 5	120	1E	1	**85,57**

778/4 (1, 2, 3, 4, 5)

778/4PB

Set extractor de suruburi



UNIOR

616822	1 - 8 / 8	720	1E	1	**281,17**

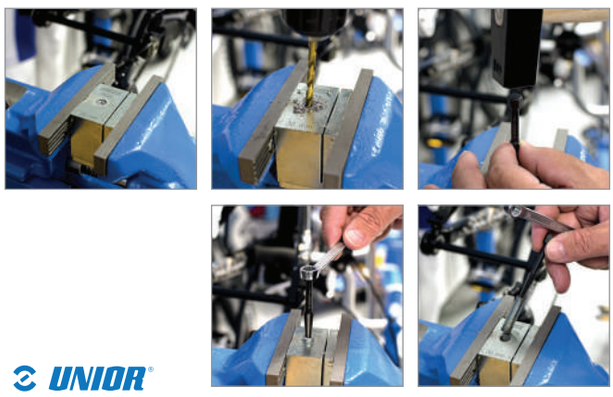
778/4 (1, 2, 3, 4, 5, 6, 7, 8)

778/4APB

Set extractor dublu ascutit de suruburi

- *pentru deșurubarea șuruburilor deteriorate sau ruginite si a bolturilor filetate*
- *fără a afecta filetele*
- *extractorul este introdus în alezaj si permite o antrenare ferma si sigura*
- *centrarea in alezaj este optima, datorita formei conice cu varf de centrare*
- *geometrie anti alunecare*
- *ascutire dubla pentru filete dreapta si stanga*
- *material: crom vanadiu*
- *tratatment complet de calire-revenire*
- *brunate*
- *muchiile taietoare rectificate*





UNIOR

616830	1 - 5 / 5	245	1E	1	**269,15**

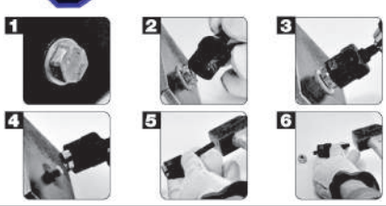
778/4A (1, 2, 3, 4, 5)

11521470002

Set capete extractoare suruburi rupte 10 piese

- *desurubarea cu usurinta a piulitelor, suruburilor cu cap hexagonal si a bolturilor de la 10 la 19 mm*
- *capete 10, 11, 13, 14, 16, 17, 19 mm*
- *adaptor 1/2"-3/8"*
- *prelungitor HEX 6.35 mm - patrat 3/8"*





TIVOLY

	Componenta	
11521470002	10-19 / 10 piese capete 10, 11, 13, 14, 16, 17, 19 mm adaptor 1/2"-3/8" prelungitor HEX 6.35 mm - patrat 3/8"	**344,56**

U5050153

Set extractoare suruburi rupte 1-5 / 5 piese

- *pentru desurubarea suruburilor ruginite si bolturilor filetate fara a afecta filetele*
- *material: crom vanadiu*
- *tratate complet*
- *brunat*



	Componenta	
U5050153	1-5 / 5 piese Gr. 1 / Gr. 2 / Gr. 3 / Gr. 4 / Gr. 5	**43,15**

SE 5

Set extractoare suruburi rupte

- *pentru desurubarea suruburilor ruginite si bolturilor filetate fara a afecta filetele*
- *material: crom vanadiu*
- *tratate complet*
- *brunat*



	Componenta	
97001430005	1 - 5 / 5 piese Gr. 1 / Gr. 2 / Gr. 3 / Gr. 4 / Gr. 5	**36,37**
97001430006	1 - 6 / 6 piese Gr. 1 / Gr. 2 / Gr. 3 / Gr. 4 / Gr. 5 / Gr. 6	**57,63**

019034

Set extractoare suruburi rupte

- *pentru desurubarea suruburilor ruginite si bolturilor filetate fara a afecta filetele*
- *material: crom vanadiu*



	Componenta	
019034	2 piese #1 / #2	**130,98**

019035

Set extractoare suruburi rupte

- *pentru desurubarea suruburilor ruginite si bolturilor filetate fara a afecta filetele*
- *material: crom vanadiu*



	Componenta	
019035	4 piese #1 / #2 / #3 / #4	**177,21**

17030/ENC

Set 4 extractoare suruburi rupte MICRO SCREW AND BOLT EXTRACTOR

- *pentru desurubarea suruburilor ruginite si bolturilor filetate fara a afecta filetele*
- *material: crom vanadiu*
- *adecvati pentru echipamente electronice de precizie si pentru industria medicala*



	Componenta	
17030/ENC	4 piese # 0 - 10; Nr. 5-10, 1/4"	**207,34**

17001/ENC

Set 2 extractoare suruburi rupte THE ORIGINAL SCREWAND BOLT EXTRACTORS

- *pentru desurubarea suruburilor ruginite si bolturilor filetate fara a afecta filetele*
- *material: crom vanadiu*
- *adecvati pentru uz casnic*



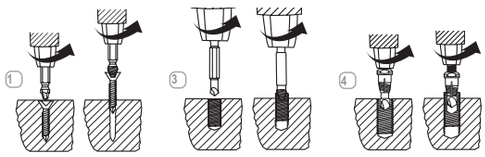
	Componenta	
17001/ENC	2 piese # 4 - 14 / Nr. 10 / 1/4"-3/8"	**118,35**

17060/ENC

Set 2 extractoare suruburi rupte
BOA PROFESSIONAL SCREW & BOLT EXTRACTORS

- *pentru desurubarea suruburilor ruginite si bolturilor filetate fara a afecta filetele*
- *material: crom vanadiu*
- *cei mai versatili extractori acoperind o gama larga de suruburi si bolturi*
- *adecvati pentru industria profesionala cum ar fi aeronautica si domeniul auto*





	Componenta	
17060/ENC	2 piese # 4 - 14 / Nr. 10 / 1/4"-3/8"	**132,54**

17020/DB15

Set 2 extractoare suruburi rupte
BOA MINI SCREW EXTRACTORS

- *pentru desurubarea suruburilor ruginite si bolturilor filetate fara a afecta filetele*
- *material: crom vanadiu*
- *extrag o gama de suruburi de dimensiuni mici*



	Componenta	
17020/DB15	2 piese # 6- 10	**72,89**

17040/ENC

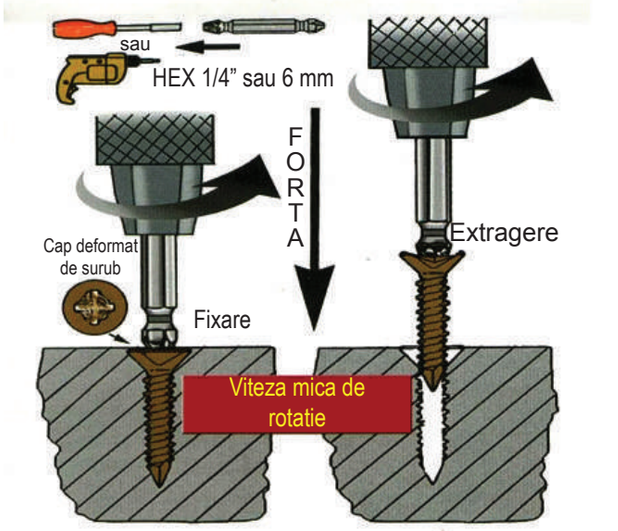
Set 4 extractoare suruburi rupte
BOLT EXTRACTORS

- *pentru desurubarea suruburilor ruginite si bolturilor filetate fara a afecta filetele*
- *material: crom vanadiu*
- *extrag suruburi usor, rapid si sigur*



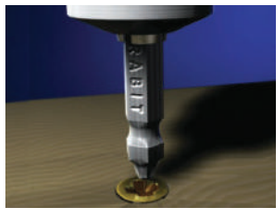
	Componenta	
17040/ENC	4 piese 1/4" - 1/2"	**257,51**

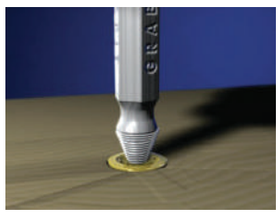
PROFILE SURUBURI

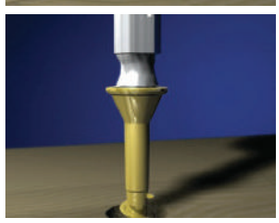


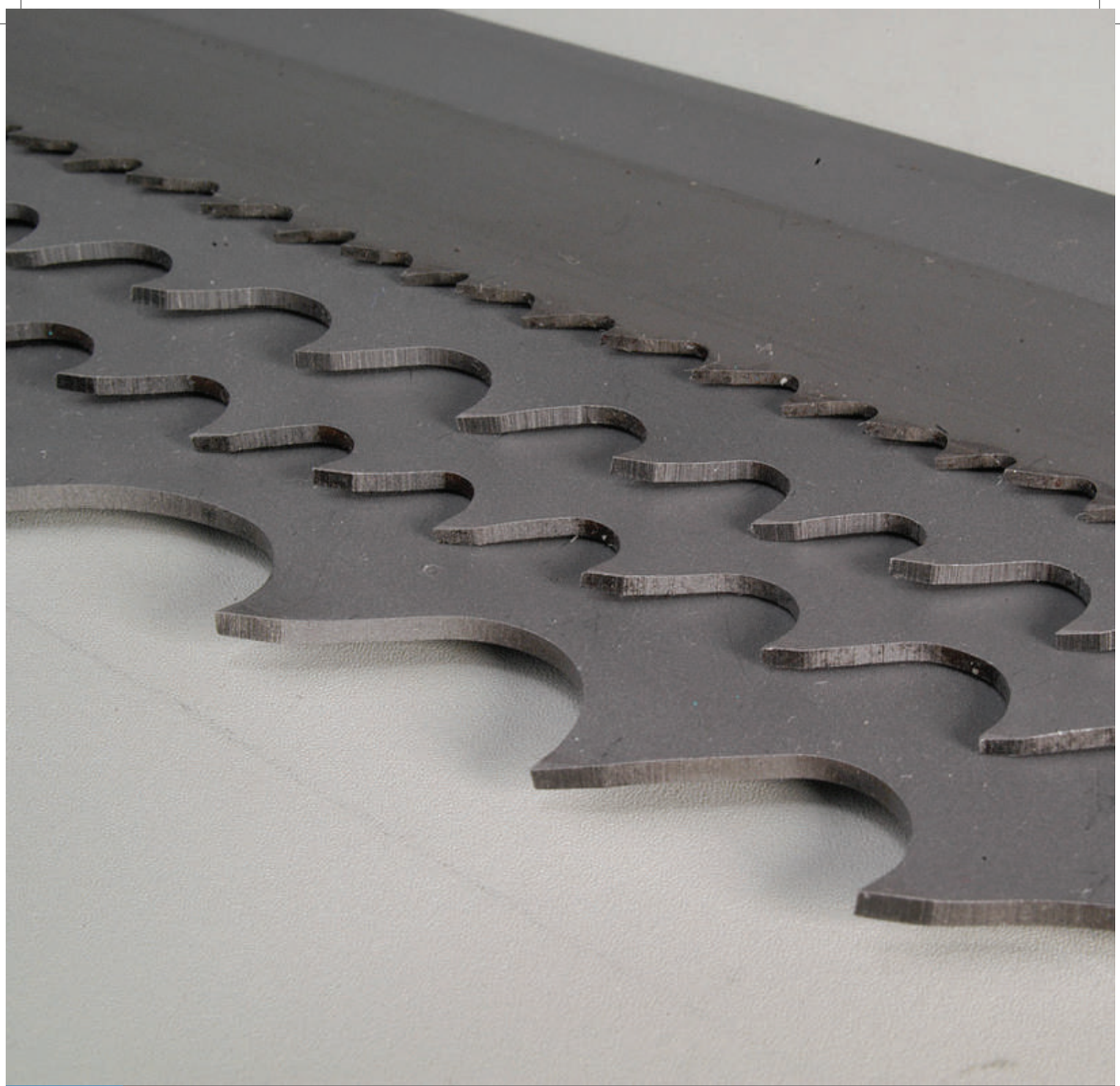
1. Se executa o gaura in capul uzat al surubului
2. Cu celalalt capat al extractorului se procedeaza la extragerea surubului

Extractoare BOA	Surub pentru lemn	Diametrul filetului		Dimensiune a boltului	Diametrul filetului	
		SAE (inch)	Metric (mm)		SAE (inch)	Metric (mm
Boa Professional Screw & Bolt Extractors						
Model #1	#4 - 7	0,112 - 0,151	3,099 - 3,835	No. 10	0,190	5
Model #2	#8 - 10	0,164 - 0,190	4,166 - 4,826	1/4"	0,250	6
Model #3	#11 - 14	0,203 - 0,242	5,156 - 6,147	5/16"	0,312	8
Model #4	#16 - 24	0,268 - 0,372	6,807 - 9,449	3/8"	0,375	10
Boa Original Screw & Bolt Extractors						
Model #2	#8 - 10	0,164 - 0,190	4,166 - 4,826	1/4"	0,250	6
Model #3	#11 - 14	0,203 - 0,242	5,156 - 6,147	5/16"	0,312	8
Boa Bolt Extractors						
Extrage 1/4"				1/4"	0,250	6
Extrage 5/16"				5/16"	0,312	8
Extrage 3/8"				3/8"	0,375	10
Extrage 1/2"				1/2"	0,500	12
Boa Mini Screw Extractors						
X-out #2	# 8-10					
X-out #3	# 10 - 14					
Boa Micro Screw & Bolt Extractors						
Model #5 & #6	#0 - 2	0,060 - 0,086	1,524 - 2,184	No. 5 & 6	0,125	3
Model #8	#2 - 4	0,086 - 0,122	2,184 - 3,099	No. 8	0,164	4
Model #10	#4 - 7	0,122 - 0,151	3,099 - 3,835	No. 10	0,190	5
Model #12	#7 - 10	0,151 - 0,190	3,835 - 4,826	1/4"	0,250	6









SCULE DE DEBITARE

PILANA

productia foarte precisa datorita utilizarii celor mai moderne tehnologii: LASER, polizoare CNC, unelte de aschiere CNC, ascutitori CNC, cuptoare automate si alte dispozitive automate si semi-automate.

BIPICO

panze continue de dimensiuni standard si solicitate de catre client, recomandate pentru toate tipurile de materiale feroase (oteluri) si neferoase, aliaje, materiale compozite /sintetice, stratificate, placi aglomerate si lemn, cu performante inalte de taiere.

WELLERSHAUS

panze continue de dimensiuni standard si solicitate de catre client, recomandate pentru busteni de esenta moale sau tare, cherestea moale sau tare, taiere longitudinala sau transversala, taiere liniara sau dupa contur.

Pilana BIPICO wellershaus WILPU MADE IN GERMANY JOSEF HAUNSTETTER SÄGENFABRIK KG GEGRÜNDET 1916 UNIOR STAYER boa Pilana METAL

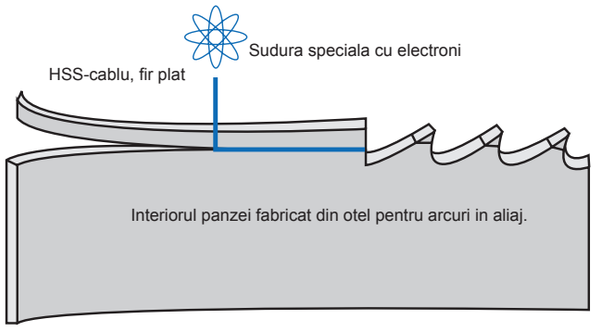
Benzi fierastrau bimetal

M42

DIN tip 1.3247, duritate aprox. 67-69 HRC

M51

DIN tip 1.3207, duritate 69 HRC cu un continut mare de wolfram si cobalt



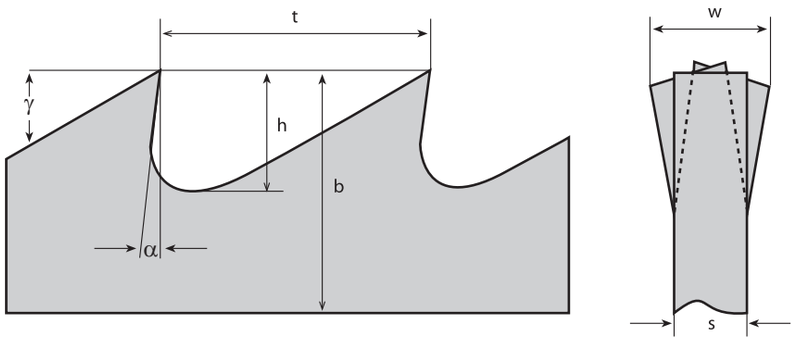
Flexibilitate:
Corpul panzei de fierastrau este fabricat dintr-un otel in aliaj special pentru arcuri. Acesta este foarte flexibil si duritatea este de aprox. 50 HRC. Este baza ideala pentru fiabilitatea dorita si confera calitati de taiere exceptionale.

Dur si rezistent:
Placutele din carbura metalica sunt fabricate din otel HSS in versiunea de material M42 sau M51.

Cea mai buna sudura:
Ambele materiale sunt sudate astfel incat nu pot fi desprinse.

Toate avantajele:
Inalta calitate a acestei panze bimetal demonstreaza atat flexibilitatea corpului suport cat si rezistenta incredibila a otelului calit HSS. Pe panza fabricata se ataseaza fiecare placuta din carbura metalica fabricate din otel HSS,

Geometria panzei de ferastrau panglica (terminologie)



b = latimea panzei
s = grosimea panzei
h = adancimea canalelor
t = pasul dintilor
α = unghi de degajare
γ = unghiul jocului masinii
w = latimea setului dintilor

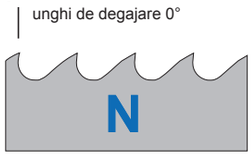
Panze panglica pentru metal 396
Panze panglica pentru lemn 403
Panze rectilinii 404
Panze pentru fierastrau vertical 409
Panze pentru fierastrau orizontal 426
Panze bomfaier 451
Panze pentru traforaj 454
Discuri abrazive 456
Discuri diamantate 457



Forma dintilor

Doar acea forma a dintilor bine aleasa poate taia efectiv cu vibratii minime. Sunt disponibile 4 tipuri de baza.

Dinti standard, pas constant

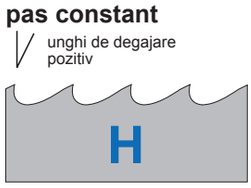


Specializare:
materiale de aschiat subtiri
materiale tubulare cu pereti subtiri

Specificatii:
unghi de degajare 0°
4+18 dinti/tol

Aria productie:
100, 420

Dinti standard, pas constant

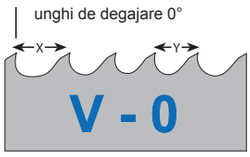


Specializare:
materiale de debitat groase
materiale dure
diametre mari

Specificatii:
unghi de degajare pozitiv
1,25 + 6 dinti/tol

Aria productie:
100, 421, 426, 427

Dinti cu pas variabil

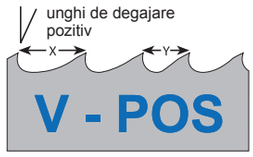


Specializare:
structura de taiere cu vibratii usoare

Specificatii:
unghi de degajare 0°
pasul dintilor variabil de 3/4 pana la 10/14

Aria productie:
430

Dinti cu pas variabil

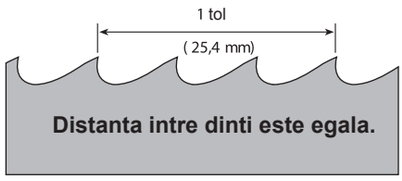


Specializare:
Taierea materialelor dure, vibratii usoare

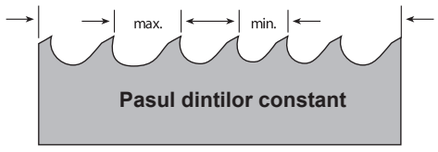
Specificatii:
Unghi de degajare pozitiv
Pasul dintilor variabil de 0.75/1.25 pana la 4/6

Aria productie:
431, 434, 435, 436, 437, 438, 531, 537, 544

Pasul dintilor



Distanta intre dinti este egala.
Numarul de dinti pe tol (25,4 mm) indica numarul de dinti al panzei.



Distantele intre dinti variaza in cadrul unui grup de dinti.
Cel mai mic si cel mai mai mare pas indica dintele variabil al panzei.

Pasul dintilor corect - Performanta optima

Pentru o performanta optima a panzei panglica bimetal alegerea danturii corecte este esentiala in aplicatiile individuale.
Alegeti fie forma dintilor Standard cu pasul constant sau dinti variabili cu dinti dispusi inegal. Dantura combinata este recomandata pentru taierea materialului problematic pentru reducerea vibratiilor

Dantura recomandata pentru taierea materialului solid

Pasul dintilor constant

Sectiune mm	TPI	Forma dintilor
380 - 800	1,25	H
200 - 400	2	H
120 - 200	3	H
80 - 120	4	H/N
50 - 80	6	N
30 - 50	8	N
20 - 30	10	N
10 - 20	14	N
0	18	N

N=forma dintilor standard
H=forma dintilor hook

Pasul dintilor variabil

Sectiune mm	TPI	Forma dintilor
ab 550	0,75/1,25	V - POS
300 - 600	1/2	V - POS
120 - 350	2/3	V - POS
80 - 150	3/4	V - POS
60 - 110	4/6	V - POS
40 - 70	5/8	V -0
30 - 60	6/10	V -0
20 - 40	8/12	V -0
bis 25	10/14	V -0

V-POS=forma dintilor variabila cu unghi hook pozitiv
V-0=forma dintilor variabila cu unghi al angrenajului de 0°

Dispunerea dintilor

Pe langa forma si pasul dintilor este esential sa alegeti o dispunere corecta a acestora pentru a obtine o inalta performanta a panzei. Jocul corect al panzei de ferastrau este obtinut printr-o dispunere specifica pentru fiecare aplicatie de taiere.
Acest lucru previne strangularea panzei, ceea ce este foarte important in acele aplicatii de taiere problematice

Tipul si latimea ceaprazuirii sunt factori decisivi in procesul de taiere.

Ceaprazuire Standard - Raker (S, SW)
maxim 10 dinti/tol
forma dintilor N, H



Ceaprazuire variabila in grup (G, GW)
0.75/1.25 aproximativ 10/14 dinti/tol
Forma dintilor K



Ceaprazuire Wavy (W)
maxim 14 dinti/tol
forma dintilor N



Recomandari pentru debitarea tevilor din otel si a altor structuri

In debitarea tevilor si profilelor din otel alegerea danturii corecte joaca un rol decisiv.
Dantura variabila s-a dovedit a fi cea mai potrivita.
Factori importanti sunt grosimea peretilor sau parametrii externi ai tevilor sau structurilor

Structuri cu pereti subtiri (unghi de degajare 0°)

Grosimea peretelui	Diametrul exterior in mm						
(S) in mm	20	40	60	80	100	120	150
2	14	14	14	14	14	14	10/14
3	14	14	14	14	10/14	10/14	8/12
4	14	14	10/14	10/14	8/12	8/12	6/10
5	14	10/14	10/14	8/12	8/12	6/10	6/10
6	14	10/14	8/12	8/12	6/10	6/10	5/8
8	14	8/12	6/10	6/10	5/8	5/8	5/8
10	-	6/10	6/10	5/8	5/8	5/8	-

Diametrul exterior al structurilor (in mm)

Grosimea peretilor	Structuri cu pereti duri (unghi de degajare pozitiv)							
(S) in mm	80	100	120	150	200	300	500	750
10	-	-	-	4/6	4/6	4/6	3/4	3/4
15	4/6	4/6	4/6	4/6	3/4	3/4	2/3	2/3
20	4/6	3/4	3/4	3/4	3/4	2/3	2/3	2/3
30	3/4	3/4	3/4	3/4	2/3	2/3	2/3	1/2
50	-	3/4	3/4	2/3	2/3	2/3	1/2	1/2
80	-	-	-	-	2/3	1/2	1/2	1/2
100	-	-	-	-	-	1/2	0,75/1,25	0,75/1,25

Recomandari tehnice
pentru benzile de ferastrau panglica

Tipul materialului	DIN specificatii material	DIN numar	Viteza de taiere Vc(m/min)		Lichid racire	
			CS 100	Bi-Metal	Ulei	Emulsie
Oteluri de structura	St 37 – 2	1.0037	30-50	80-100		x
	St 50 – 2	1.0050	30-45	60-85		x
	St 60 – 2	1.0060	30-40	50-70		x
Oteluri de cementare	C 10	1.0301	40-60	80-100	x	
	14 NiCr 14	1.5752	25-30	40-55	x	
	21 NiCrMo 2	1.6523	30-40	50-60	x	
	16 MnCr 5	1.7131	25-30	40-60	x	
Oteluri pentru masini	9 S 20	1.0711	40-60	80-120		x
	45 S 20	1.0727	40-60	80-120		x
Oteluri tratate la cald	C 45	1.0503	35-50	60-70		x
	40 Mn 4	1.1157	30-40	60-70		x
	36 NiCr 6	1.5710	30-40	60-70		x
	34 CrNiMo 6	1.6582	25-35	50-65		x
	42 CrMo 4	1.7225	25-35	50-65		x
Oteluri lagar cu bile	100 Cr 6	1.3505	20-30	35-50		x
	100 CrMn 6	1.3520	20-30	35-50		x
Oteluri pentru arcuri	65 Si 7	1.5028	25-35	45-60		x
	50 CrV 4	1.8159	25-35	45-60		x
Oteluri pentru unelte fara aliaj	C 125 W	1.1663	20-30	40-60		x
	C 75 W	1.1750	20-30	40-60		x
Oteluri pentru unelte prelucrate	125 Cr 1	1.2002	20-30	40-50	x	x
la rece	X 210 Cr 12	1.2080	15-25	30-40	x	x
	X 155 CrVMo 12 1	1.2379	15-25	30-40	uscat	
	X 42 Cr 13	12083	20-25	35-45	x	x
	X 165 CrV 12	1.2201	15-25	30-45	x	x
	100 CrMo 5	1.2303	15-30	30-50	x	x
	X 32 CrMoV 3 3	1.2365	25-35	45-60	x	x
	45 WCrV 7	1.2542	20-30	40-50	x	x
Oteluri unelte prelucrate la cald	56 NiCrMoV 7	1.2714	20-30	40-50	x	x
Oteluri rapide	S 6-5-2-5 (EMo5 Co5)	1.3243	20-30	35-45		x
	S 2-10-1-8 (M 42)	1.3247	20-30	35-45		x
	S 6-5-2 (DMo5)	1.3343	20-30	35-45		x
Oteluri pentru valve	X 45 CrSi 9 3	1.4718	-	30-45	x	x
	X 45 CrNiW 18 9	1.4873	-	30-40	x	x
Oteluri de temperaturi inalte	X 20 CrMoV 12 1	1.4922	-	10-30	x	x
	X 5 NiCrTi 26 15	1.4980	-	10-30	x	x
Oteluri rezistente la caldura	X 10 CrSi 6	1.4712	-	15-25	x	x
	X 10 CrAl 18	1.4742	-	15-25	x	x
	X 15 CrNiSi 25 20	1.4841	-	15-25	x	x
Oteluri inoxidabile	X 5 CrNi 18 10	1.4301	-	30-40	x	x
	X 6 CrNiMoTi 17 12 2	1.4571	-	30-40	x	x
Piese turnate din otel	GS-38	1.0420	20-30	40-60		x
	GS-60	1.0558	20-30	40-60		x
Fonta (de turnatorie)	GG-15	0.6015	25-30	30-60	uscat	
	GG-30	0.6030	25-30	30-60	uscat	
	GGG-50	0.7050	25-30	30-60	uscat	
	GTW-40-05	0.8040	25-30	30-60	uscat	
	GTS-65-02	0.8165	25-30	30-60	uscat	
Cupru	KE-Cu	2.0050	100-250	100-400	x	x
	Elektrrolyt -Ku pfer		100-250	100-400	x	x
Alama (aliaje cupru-zinc)	CuZn 10	2.0230	100-300	100-400		x
	CuZn 31 Si 1	2.0490	100-250	100-400		x
Bronz aluminiu	CuAl 8	2.0920	20-30	35-50		x
(aliaje cupru-aluminiu)	CuAl 10 Fe 3 Mn 2	2.0936	20-30	35-50		x
Bronz (aliaje cupru-staniu)	CuSn 6	2.1020	80-100	80-150		x
	CuSn 6 Zn 6	2.1080	80-100	80-150		x
Alama rosie (aliaje cu cupru pentru turnatorie	G-CuSn 10 Zn	2.1086.01	30-40	50-100		x
	G-CuSn 5 ZnPb	2.1096.01	30-40	50-100		x
Aliaje pe baza de nichel	NiCr 20 TiAl	2.4631	-	10-25	x	x
	NiCr 22 FeMo	2.4972	-	10-25	x	x
Aluminiu si aliaje	Al 99.5	3.0255.07	80-300	80-800		x
	AlMgSiPb	3.0615.71	80-300	80-800		x
	G-AlSi 5 Mg	3.2341.01	80-300	80-800		x
Aliaje cu titan	Ti 99.5	3.7024.1	-	10-20	x	x
	TiAl 6 V 4	3.7165	-	10-20	x	x
Materiale plastice termorezistente	PVC		100-400	100-400	uscat	
	Teflon, Hostalen		100-400	100-400	uscat	
Materiale plastice cu intercalari de fibre	Resitex		50-200	50-300	uscat	
	Novotex		50-200	50-300	uscat	

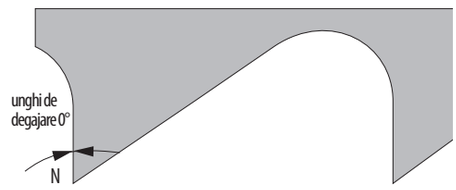
M42-420 MASSIVE Expert

Panza panglica pentru taierea tuturor dimensiunilor de otel solid

• placutele din carbura fabricate din HSS M42 / nr material 1.3247
• dinti standard cu unghi de degajare de 0° sau usor pozitiv in combinatie cu racleta/rascheta standard sau un set
striat/zimtuit sunt potrivite pentru taierea materialelor de aschiere sau a materialelor de grosime mica
• pentru taieri netede sau fara bavura de laminare
• pentru taierea tuturor dimensiunilor de otel solid

Domeniu de utilizare:

• otel de calitate comuna pana la un max de 1400 N/mm², rezistenta de rupere la tractiune
• metale neferoase
• sectiuni transversale pana la un maxim de aprox. 100 mm (4")
• operatii de taiere contur



***N**: dinti standard*
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch						
		4	6	8	10	14	18	
6 x 0,90	**1/4 x 0,035**	-	-	-	-	N	-	**58.64**
10 x 0,90	**3/8 x 0,035**	-	-	-	N	N	-	**58.64**
13 x 0,65	**1/2 x 0,025**	-	-	-	N	N	N	**52.42**
13 x 0,90	**1/2 x 0,035**	-	-	-	N	N	-	**52.42**
20 x 0,90	**3/4 x 0,035**	N	N	-	-	N	-	**56.63**
27 x 0,90	**1.1/16 x 0,035**	N	N	-	-	N	-	**56.63**
34 x 1,10	**1.3/8 x 0,042**	N	N	-	-	-	-	**78.16**

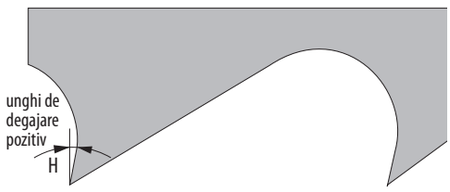
M42-421 MASSIVE Expert Plus

Panza panglica pentru taierea barelor solide de mari dimensiuni

• placutele dintilor fabricate din HSS M 42 / material nr 1.3247
• dinti ai angrenajului cu clichet cu unghi de degajare pozitiv combinat cu un set cu racleta pentru o usoara
penetrare a dintilor si formarea aschiilor pe sectiuni transversale de dimensiuni mai mari
• taie materiale de aschiere lungi si pe cele dure fara nici o problema
• taiere neteda si precisa
• ideala pentru taierea barelor solide de mari dimensiuni

Domeniu de utilizare:

• oteluri de calitate comuna cu rezistenta de rupere la tractiune de pana la 1400 N/mm²
• metale neferoase
• sectiuni transversale de peste 100 mm (4")



***H**: dinti ai angrenajului cu clichet*
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch					
		1,25	2	3	4	6	
6 x 0,90	**1/4 x 0,035**	-	-	-	-	H	**57.60**
10 x 0,90	**3/8 x 0,035**	-	-	-	H	H	**57.60**
13 x 0,65	**1/2 x 0,025**	-	-	-	H	H	**52.42**
13 x 0,90	**1/4 x 0,035**	-	-	H	H	H	**52.42**
20 x 0,90	**3/4 x 0,035**	-	-	H	H	-	**56.63**
27 x 0,90	**1.1/16 x 0,035**	-	H	H	H	H	**56.63**
34 x 1,10	**1.3/8 x 0,042**	H	-	H	-	-	**78.16**
41 x 1,30	**1.5/8 x 0,050**	H	H	-	-	-	**102.15**
54 x 1,30	**2.1/8 x 0,050**	-	-	H	-	-	**146.10**
54 x 1,60	**2.1/8 x 0,063**	H	H	-	-	-	**164.72**
67 x 1,60	**2.5/8 x 0,063**	H	-	-	-	-	**226.36**

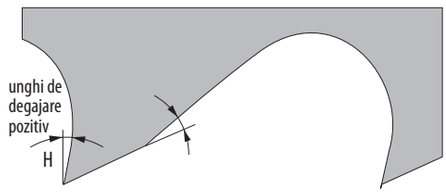
M42-426 ALU Expert

Panza panglica pentru taierea fina a metalelor usoare

• placutele dintilor fabricate din materialul HSS M42, DIN 1.3247
• dinti de fixare/ai angrenajului cu clichet intr-un set dur ce poate actiona la toate dimensiunile
• taieri fine si durata uneltei care convinge
• ideala pentru taierea fina a metalelor usoare

Domeniu de utilizare:

• aluminiu pur si aliaje de aluminiu toate dimensiunile



***H**: dinti ai angrenajului cu clichet*
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		1,25	2	3	4	6	
13 x 0,90	**1/4 x 0,035**	-	-	H	H	H	**52.42**
20 x 0,90	**3/4 x 0,035**	-	-	H	-	-	**56.63**
27 x 0,90	**1.1/16 x 0,035**	-	H	H	H	-	**56.63**
34 x 1,10	**1.3/8 x 0,042**	H	-	-	-	-	**78.16**
41 x 1,30	**1.5/8 x 0,050**	H	H	-	-	-	**101.94**

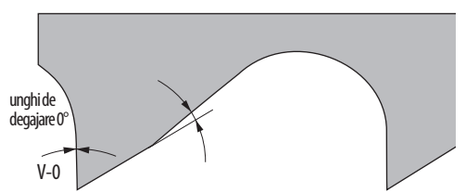
M42-430 Universal

Panza panglica pentru taierea structurilor de grosime medie sau pereti subtiri

• placutele dintilor confectionate din material HSS M42, DIN 1.3247
• dinti variabili cu unghi de degajare de 0° cu o setare de grup speciala care taie chiar si cele mai subtiri sectiuni cu vibratii putine
• materialele de aschiat scurte sunt taiate fara probleme
• durata lunga de viata si costuri minime
• ideala pentru structuri de grosime medie sau pereti subtiri

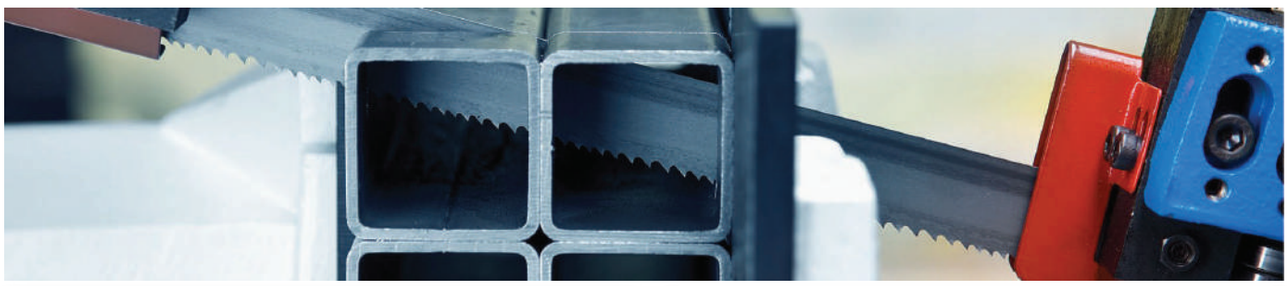
Domeniu de utilizare:

• oteluri de calitati commune cu rezistenta de rupere la intindere de pana la 1400 N/mm²
• profile din metale neferoase
• taieri simple sau in pachet
• tuburi si structuri cu pereti subtiri sau medii
• table din metal pentru masini de debitat cu panza panglica verticale



***V-O**: dinti variabili*
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		5/8	6/10	8/12	10/14	
13 x 0,65	**1/2 x 0,025**	V-O	V-O	V-O	V-O	**42.55**
13 x 0,90	**1/4 x 0,035**	-	V-O	V-O	V-O	**47.46**
20 x 0,90	**3/4 x 0,035**	V-O	V-O	V-O	V-O	**42.55**
27 x 0,90	**1.1/16 x 0,035**	V-O	V-O	V-O	V-O	**46.11**
34 x 1,10	**1.3/8 x 0,042**	V-O	V-O	V-O	V-O	**60.02**
41 x 1,30	**1.5/8 x 0,050**	V-O	V-O	-	-	**79.12**



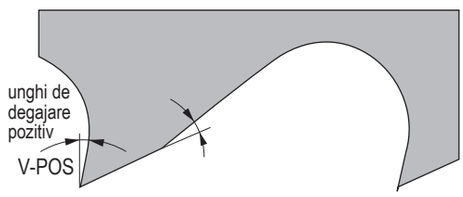
M42-431 MASSIVE

Panza panglica pentru taierea sectiunilor medii si mari

- *placutele dintilor confectionate din material HSS M42, DIN 1.3247*
- *dinti variabili cu unghi de degajare pozitiv cu o setare speciala a grupului taie materiale solide, precum si structuri cu pereti duri, tuburi la o mare viteza de taiere cu o suprafata neteda*
- *ideala pentru taierea sectiunilor medii si mari*

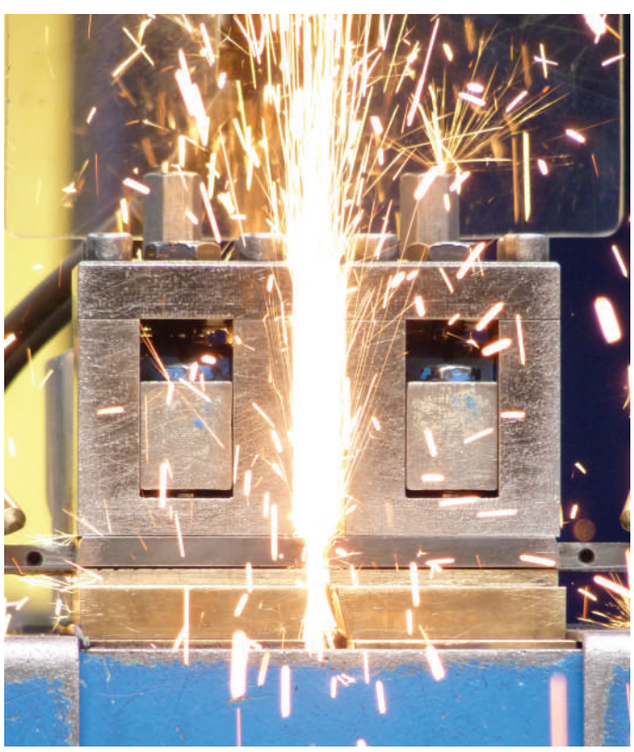
Domeniu de utilizare:

- *oteluri de calitati commune cu rezistenta de rupere la intindere de pana la 1400 N/mm²*
- *metale neferoase*
- *taieri simple sau in pachet*
- *material solid de dimensiuni medii sau mari*
- *tevi cu pereti grosi*



***V-POS**: dinti variabili cu unghi de degajare pozitiv*
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		1,4/2	2/3	3/4	4/6	
20 x 0,90	**3/4 x 0,035**	-	-	-	V-POS	**42.55**
27 x 0,90	**1.1/16 x 0,035**	-	V-POS	V-POS	V-POS	**46.11**
34 x 1,10	**1.3/8 x 0,042**	V-POS	V-POS	V-POS	V-POS	**60.02**
41 x 1,30	**1.5/8 x 0,050**	V-POS	V-POS	V-POS	V-POS	**79.12**
54 x 1,30	**2.1/8 x 0,050**	V-POS	V-POS	V-POS	V-POS	**151.89**
54 x 1,60	**2.1/8 x 0,063**	V-POS	V-POS	V-POS	V-POS	**151.89**
67 x 1,60	**2.5/8 x 0,063**	V-POS	V-POS	V-POS	-	**207.63**



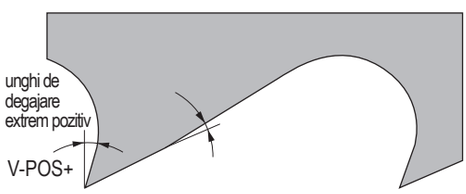
M42-434 MASSIVE Proeminent

Panza panglica pentru taierea aliajelor dure si a materialelor dificile

- *placutele dintilor fabricate din material HSS M42, DIN 1.3247*
- *dinti variabili cu unghi de degajare 0° cu o grupare in set speciala taie chiar si sectiunile cele mai subtiri cu mai putine vibratii*
- *materialele de aschiat scurte sunt taiate fara probleme*
- *benzi de ferastrau viabile la costuri reduse*
- *ideala pentru taierea aliajelor dure si a materialelor dificile*

Domeniu de utilizare:

- *oteluri inoxidabile*
- *bronzuri speciale*
- *aliaje pe baza de cupru*
- *aliaje pe baza de nichel*
- *profile din oteluri de aschiere lungi*
- *aliaje pe baza de titaniu*
- *aliaje exotice, dificil de debitat*
- *materiale solide in sectiuni medii*



V-POS+: dinti variabili cu degajare extren pozitiv
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch			
		1,4/2	2/3	3/4	
34 x 1,10	**1.3/8 x 0,042**	-	V-POS+	V-POS+	**82.20**
41 x 1,30	**1.5/8 x 0,050**	V-POS+	V-POS+	V-POS+	**106.95**
54 x 1,30	**2.1/8 x 0,050**	-	V-POS+	-	**153.55**
54 x 1,60	**2.1/8 x 0,063**	V-POS+	V-POS+	V-POS+	**172.80**

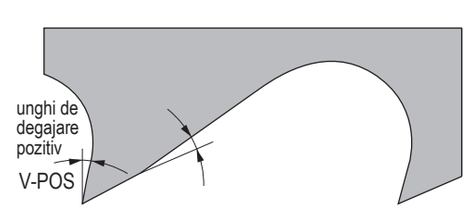
M42-436 ALU

Panza panglica pentru taierea taierea aluminiului fara strangulare

- *dintii panzei sunt fabricate din materialul HSS M42, DIN 1.3247*
- *acest set de dinti cu unghi de degajare pozitiv impiedica strangularea panzei si taie piese mari cu vibratie redusa*
- *asigura o productivitate marita si un cost redus per taietura*
- *ideala pentru taierea aluminiului fara strangulare (structuri late)*

Domeniu de utilizare:

- *aluminium pur si aliaje de aluminiu*
- *materiale care au tendinta de se strangula*
- *sectiuni mai mari si structuri pentru pereti duri*



V-POS+: dinti variabili cu degajare extren pozitiv
Sudura de la 6 la 41 mm: 28.2 lei/sudura

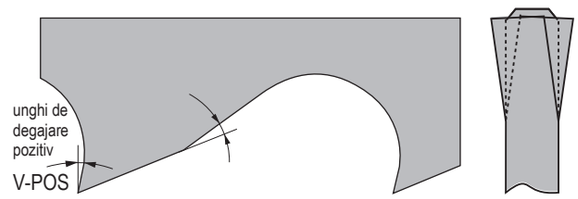
Dimensiune		dinti/inch		
		2/3	3/4	
27 x 0,90	**1.1/16 x 0,035**	V-POS	V-POS	**46.11**
34 x 1,10	**1.3/8 x 0,042**	V-POS	V-POS	**60.02**
41 x 1,30	**1.5/8 x 0,050**	V-POS	V-POS	**79.12**

M42-437 MASSIVE Proeminent

Panza panglica pentru taierea aliajelor speciale si materialelor dificil de prelucrat

• placutele dintilor de precizie slefuiti din borazon fabricate din HSS M42 / material nr. 1 .3247
• dinti variabili cu geometrie de aschiere multipla, unghi de degajare pozitiv si setare in grup
• aschii divizate perfect si ghidare a benzii excelenta
• varfurile foarte ascutite asigura forte de taiere reduse si o mare acuratete de taiere
• ideala pentru taierea aliajelor speciale si materialelor dificil de prelucrat (dinti variabili slefuiti din borazon)

Domeniu de utilizare:
• oteluri inoxidabile
• oteluri rezistente la temperaturi mari
• aliaje cu titaniu
• aliaje pe baza de nichel



***V-POS**: dinti variabili cu unghi de degajare pozitiv*
Sudura de la 6 la 41 mm: 28.2 lei/sudura

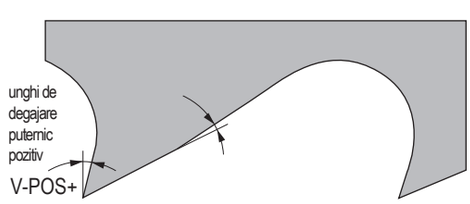
Dimensiune		dinti/inch				
		0,75/1,25	1,4/2	2/3	3/4	
27 x 0,90	**1.1/16 x 0,035**	-	-	V-POS	V-POS	**65.20**
34 x 1,10	**1.3/8 x 0,042**	-	V-POS	V-POS	V-POS	**89.80**
41 x 1,30	**1.5/8 x 0,050**	-	V-POS	V-POS	V-POS	**117.14**
54 x 1,60	**2.1/8 x 0,063**	-	V-POS	V-POS	V-POS	**189.31**
67 x 1,60	**2.5/8 x 0,063**	V-POS	V-POS	V-POS	-	**259.29**
80 x 1,60	**3 x 0,063**	V-POS	V-POS	-	-	**331.37**

M42-438 MASSIVE Proeminent Plus

Panza panglica pentru taierea aliajelor dure si a materialelor dificile

• placutele dintilor de precizie slefuiti din borazon fabricate din HSS M42 / material nr. 1.3247
• dinti variabili cu unghi de degajare extrem pozitiv in conexiune cu geometria dintilor slefuiti si setarea in grup variabil a fac posibila o distribuire superioara a aschiilor
• dintii canelati cu unghi de degajare pozitiv asigura o ghidare excelenta a benzii si vibratii reduse
• rezultatul il reprezinta suprafetele taiate curat si o inalta performanta
• ideala pentru taierea materialelor si aliajelor dure (dinti slefuiti din borazon)

Domeniu de utilizare:
• oteluri inoxidabile
• bronzuri speciale
• aliaje pe baza de cupru
• aliaje pe baza de nichel
• profile din oteluri de aschiere lungi
• aliaje pe baza de titaniu
• aliaje exotice, dificil de debitat



V-POS+: dinti variabili cu degajare extren pozitiv
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch			
		1,4/2	2/3	3/4	
34 x 1,10	**1.3/8 x 0,042**	-	V-POS+	V-POS+	**93.84**
41 x 1,30	**1.5/8 x 0,050**	V-POS+	V-POS+	V-POS+	**122.33**
54 x 1,60	**2.1/8 x 0,063**	V-POS+	V-POS+	V-POS+	**197.56**

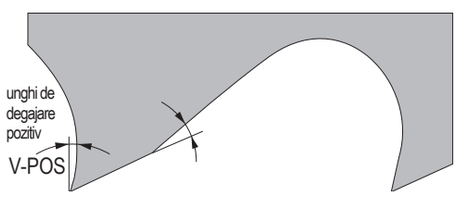


M42-461 PROFILE Universal Plus

Panza panglica pentru o gama larga de taiere

• placutele dintilor fabricate din material HSS M42/W.Nr. 1.3247, duritate 68 HRc
• dinti variabili cu unghi de degajare pozitiv ce sporesc rezistenta la rupere si micsoreaza tendinta de vibrare
*• marcate cu dimensiune si dantura * setarea dintilor elimina strangularea panzei*

Domeniu de utilizare:
• oteluri de calitati comune cu rezistenta de rupere la intindere de pana la 1400 N/mm²
• otel de constructii, cementare, nitrurare si otel pentru arcuri
• otel de scule incluzand oteluri inalt aliate
• profile, grinzi, tuburi - taieri simple sau in pachet
• nu este pe deplin recomandat pentru taierea materialelor pline
• gama larga de taiere



***V-POS:** dinti variabili cu unghi de degajare pozitiv*
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch					
		2/3	3/4	5/7	8/11	12/16	
20 x 0,90	**3/4 x 0,035**	-	-	V-POS	V-POS	V-POS	**42.55**
27 x 0,90	**1-1/16 x 0,035**	-	V-POS	V-POS	V-POS	V-POS	**46.11**
34 x 1,10	**1-3/8 x 0,042**	V-POS	V-POS*	V-POS	V-POS	-	**60.02**
41 x 1,30	**1-5/8 x 0,050**	V-POS*	V-POS*	V-POS	V-POS	-	**79.11**
54 x 1,30	**2-1/8 x 0,050**	V-POS	V-POS	V-POS	-	-	**139.86**
54 x 1,60	**2-1/8 x 0,063**	V-POS*	V-POS*	V-POS	-	-	**144.85**

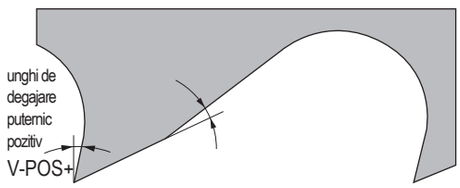
M51-531 MASSIVE Profi M 51

Panza panglica pentru taierea otelurilor dure si aliaje de metale de dimensiuni medii

- *dinti din placute metalice fabricate din HSS M51, DIN 1.3207*
- *dinti variabili pozitivi cu forme speciale*
- *rezistenta marita la temperaturi inalte a placutelor din carbura metalica fabricate din HSS M51 mareste durata de viata in cazul otelurilor dure si problematice*
- *dinti foarte durabili pentru taierea tipurilor de otel dure si aliaje de metale de dimensiuni medii*

Domeniu de utilizare:

- *oteluri cu rezistenta de rupere la tractiune de pana la 1700 N/mm²*
- *oteluri autentice inoxidabile*
- *aliaje pe baza de nichel*
- *titan si bronzuri speciale*
- *material solid de dimensiuni medii*
- *tevi cu pereti grosi*



***V-POS+**: dinti variabili cu degajare extren pozitiv*
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		1,4/2	2/3	3/4	4/6	
27 x 0,90	**1.1/16 x 0,035**	-	V-POS+	V-POS+	V-POS+	**68.78**
34 x 1,10	**1.3/8 x 0,042**	-	V-POS+	V-POS+	V-POS+	**81.55**
41 x 1,30	**1.5/8 x 0,050**	-	V-POS+	V-POS+	-	**106.06**
54 x 1,60	**2.1/8 x 0,063**	V-POS+	V-POS+	-	-	**179.78**
67 x 1,60	**2.5/8 x 0,069**	V-POS+	-	-	-	**244.10**

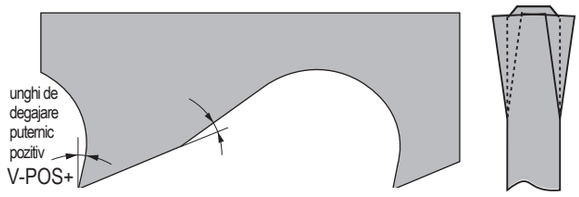
M51-537 MASSIVE Super M 51

Panza panglica pentru taierea cele mai dure tipuri de otel si aliaje de dimensiuni medii

- *placutele dintilor din borazon fabricate din HSS M51, DIN 1.3207*
- *dinti variabili cu unghi de degajare pozitiv in conexiune cu geometria acestora si o setare variabila a grupului genereaza o distributie a ashiilor superioara*
- *dinti tesiti cu racleta ce ofera ghidare excelenta a benzii la o vibratie mica*
- *duritatea placutelor de aprox. HRC 69 mareste durata de viata pentru o mai buna eficacitate*
- *dinti caliti extrem de rezistenti pentru cele mai dure tipuri de otel si aliaje de dimensiuni medii (dinti slefuiti din borazon)*

Domeniu de utilizare:

- *oteluri cu rezistenta de rupere la tractiune de pana la 1700 N/mm²*
- *oteluri autentice inoxidabile*
- *aliaje pe baza de nichel*
- *materiale solide de dimensiuni medii*



***V-POS+:** dinti variabili cu degajare extren pozitiv*
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch			
		1,4/2	2/3	3/4	
34 x 1,10	**1.3/8 x 0,042**	-	V-POS+	V-POS+	**97.69**
41 x 1,30	**1.5/8 x 0,050**	-	V-POS+	V-POS+	**121.52**
54 x 1,60	**2.1/8 x 0,063**	V-POS+	V-POS+	-	**193.94**
67 x 1,60	**2.5/8 x 0,063**	V-POS+	-	-	**322.70**

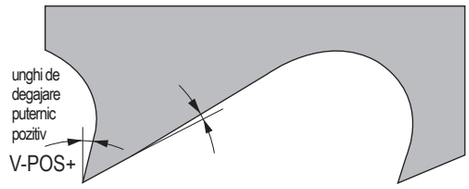
M51-544 MASSIVE Plus M 51

Panza panglica pentru taierea otelurilor si bronzurilor speciale de dimensiuni medii si mari

- *placutele dintilor fabricate din material HSS M51, DIN 1.3207*
- *forma dintilor cu design nou de calitate superioara si cea ma inalta performanta, suprafete slefuite la presiunea camerei*
- *dinti variabili cu unghi de degajare pozitiv si dispunere standard*
- *design pentru tipurile de masini mari, puternice*
- *performante de taiere superioare pentru oteluri si bronzuri speciale de dimensiuni medii si mari (dinti fabricati prin debavuare)*

Domeniu de utilizare:

- *oteluri cu rezistenta de rupere la tractiune de pana la 1700 N/mm²*
- *oteluri inoxidabile*
- *materiale pentru aschiere lungi*
- *taierea sectiunilor transversale mari*



***V-POS+**: dinti variabili cu unghi de degajare pozitiv*
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		0,75/1,25	1,4/2	2/3	3/4	
41 x 1,30	**1.5/8 x 0,050**	-	-	V-POS+	V-POS+	**123.38**
54 x 1,60	**2.1/8 x 0,063**	V-POS+	V-POS+	V-POS+	V-POS+	**199.67**
67 x 1,60	**2.5/8 x 0,063**	V-POS+	V-POS+	V-POS+	-	**292.21**
80 x 1,60	**3.1/8 x 0,063**	V-POS+	-	V-POS+	-	**411.47**

22 2971

Panza panglica din otel carbon

- *corpul panzei panglica si dintii din otel carbon*
- *placutele din carbura metalica intarite de frecventa mare si ajustate la duritatea 64-65 HRC*
- *forma dintilor Standard, Hook si Skip*
- *CS - 100 pentru productie in bucati si aplicatii mai putin costisitoare*

Domeniu de utilizare:

- *tipurile de otel comune cu rezistenta de rupere la tractiune / la intindere 700N/mm²*
- *taiere unitara sau generala*
- *materiale colorate/tratate*
- *material solid de diametru mic, tuburi si profile*

22 2971 - c 125 W STANDARD



Dinte Standard - structuri cu pereti subtiri, placi metalice, taieri de contur in metale si neferoase.

22 2971 - c 125 W HOOK



Dinte Hook - materiale solide, structuri si tuburi de greutate mare, materiale termoplastice , PAL

SKIP



Dinte Skip - materiale plastice dure, placi laminate

Sudura de la 6 la 41 mm: 28.2 lei/sudura

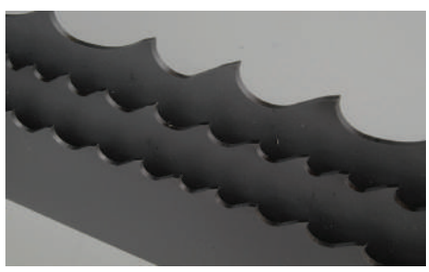
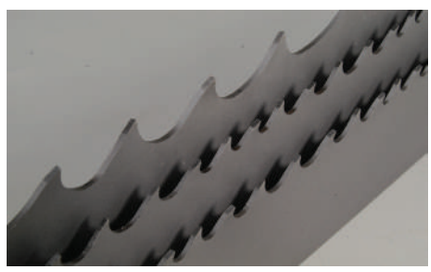
Dimensiune		dinti/inch							
Panze ferastrau panglica din otel carbon STANDARD									
5 x 0,65	-	-	-	-	14	18	-	**22.34**
6 x 0,65	-	-	8	10	14	18	24	**16.95**
8 x 0,65	-	-	-	10	14	18	24	**16.95**
10 x 0,65	-	6	8	10	14	18	24	**16.95**
13 x 0,65	-	6	8	10	14	18	24	**18.34**
16 x 0,80	-	6	8	10	14	18	24	**23.27**
20 x 0,80	-	6	8	10	14	18	-	**26.66**
25 x 0,90	4	6	8	10	14	18	-	**33.75**

Dimensiune	dinti/inch		
Panze ferastrau panglica din otel carbon HOOK si SKIP			
	Hook	SKIP	
6 x 0,65	4	6	4	**16.95**
8 x 0,65	-	-	4	**16.95**
10 x 0,65	4	6	4	**16.95**
13 x 0,65	4	6	4	**18.34**
16 x 0,80	4	-	4	**23.27**
20 x 0,80	4	6	4	**26.66**
25 x 0,90	4	-	4	**36.75**

Recomandari pentru selectarea parametrilor de taiere:

1) Selectati marimea corecta a benzii.
2) Selectati forma si pasul corect al dintilor.
3) Selectati viteza de taiere si avansul de taiere din tabelul de recomandari pentru a obtine timpul optim de taiere.

TEVI		MATERIAL PLIN							
Ø 100 x 5t	Ø 50 x 3t 9 Bundel	Ø 50 9 Bundel	Ø 100	Ø 200	Ø 300	Ø 400	Ø 500	Ø 700	Ø 1000
15	40	177	79	314	707	157	1963	3848	7854
									
52~ 78	52~ 78	48~ 72	48~ 72	48~ 72	48~ 72	43~ 65	39~ 58	34~ 51	30~ 44
9~ 13	16~ 24	43~ 65	36~ 54	72~ 108	72~ 108	60~ 91	49~ 73	37~ 56	26~ 38
1,1~ 1,7	1,7~ 2,5	2,7~ 4,1	1,5~ 2,2	2,9~ 4,4	6,5~ 9,8	13,9~ 20,8	26,8~ 40	69~ 103	205~ 30
48~ 71	48~ 71	44~ 66	44~ 66	44~ 66	44~ 66	39~ 59	35~ 52	30~ 45	26~ 38
7~ 11	13~ 19	34~ 50	28~ 42	56~ 84	56~ 84	47~ 71	39~ 58	30~ 45	22~ 32
1,4~ 2,1	2,1~ 3,1	3,5~ 5,3	1,9~ 2,8	3,7~ 5,6	8,4~ 12,6	17,7~ 26,5	34~ 51	85~ 127	242~ 36
43~ 65	43~ 65	40~ 60	40~ 60	40~ 60	40~ 60	35~ 53	31~ 46	26~ 39	22~ 32
6~ 10	11~ 17	24~ 36	20~ 30	40~ 60	40~ 60	34~ 52	29~ 43	23~ 35	18~ 26
1,5~ 2,3	2,3~ 3,5	4,9~ 7,4	2,6~ 3,9	5,2~ 7,9	11,8~ 17,7	24,4~ 37	45~ 68	111~ 166	297~ 44
30~ 45	30~ 45	28~ 42	28~ 42	28~ 42	28~ 42	25~ 38	23~ 34	20~ 30	18~ 26
6~ 9	10~ 16	14~ 27	11~ 23	23~ 46	23~ 46	20~ 40	17~ 35	15~ 25	12~ 20
1,7~ 2,6	2,6~ 3,9	6,5~ 12,9	3,5~ 6,9	6,9~ 13,8	15,5~ 31	31~ 63	57~ 113	154~ 263	385~ 66
29~ 43	29~ 43	24~ 36	24~ 36	24~ 36	22~ 32	19~ 29	17~ 26	-	-
5~ 8	9~ 14	10~ 18	8~ 15	16~ 30	14~ 27	13~ 24	12~ 22	-	-
1,9~ 2,9	2,9~ 4,3	9,8~ 18,4	5,2~ 9,8	10,5~ 19,6	26~ 49	52~ 97	90~ 168	-	-
-	-	-	8~ 18	8~ 18	7~ 16	-		-	-
-	-	-	2~ 9	3~ 15	3~ 14	-	-	-	-
-	-	-	9,2~ 52	20,9~ 105	52~ 262	-	-	-	-

SILVER MATRIX II

Panza panglica pentru debitarea sectiunilor goale, cu pereti subtiri

• dantura cu unghi de degajare normal
• panze folosite la debitarea sectiunilor goale, cu pereti subtiri
• proprietati superioare ale marginii de taiere a dintilor in timpul taierii cu vibratii mari, cum ar fi taierea tubulaturii subtire, a sectunilor transversale si a aplicatiilor de taiere materialelor in pachet

Domeniu de utilizare:
• oteluri cu continut redus de carbon
• oteluri aliate cu duritate medie
• oteluri de constructii





BIPICO

Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		Dantura constanta		Dantura variabila		
		TPI (Standard)	TPI (Hook)	TPI (Standard)	TPI (Hook)	
27 x 0,90	**1.1/16 x 0,035**	6, 10, 14	-	-	8/12, 10/14	**50.85**

GOLD M42 PLUS

Panza panglica pentru debitarea profilelor de dimensiuni mari si structurilor pline

• geometrie a dintelui special conceputa cu unghi de degajare standard.
• utilizata pentru taierea profilelor de dimensiuni mari si structurilor pline (cu rezistenta de pana la 35 HRC).

Domeniu de utilizare:
• oteluri aliate
• oteluri carbon de calitate
• oteluri de constructii
• oteluri pentru scule





BIPICO

Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		Dantura constanta		Dantura variabila		
		TPI (Standard)	TPI (Hook)	TPI (Standard)	TPI (Hook)	
13 x 0,65	**1/2 x 0,025**	10,14,18,24	-	-	8/12, 10/14	**41.61**
13 x 0,90	**1/2 x 0,035**	10,14,18,	-	-	6/10, 8/12, 10/14	**44.69**
20 x 0,90	**3/4 x 0,035**	6,10,14	-	-	5/8, 6/10, 8/12, 10/14	**46.23**
27 x 0,90	**1 1/16 x 0,035**	6,10,14	-	-	4/6, 5/8, 6/10, 8/12, 10/14	**52.39**

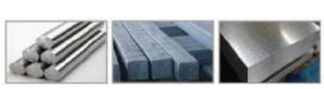
GOLD M42 Extreme

Panza panglica pentru debitarea profilelor de dimensiuni mari si structurilor pline

• geometrie a dintelui special conceputa cu unghi de degajare pozitiv.
• utilizata pentru taierea profilelor de dimensiuni mari si structurilor pline (cu rezistenta de pana la 35 HRC).

Domeniu de utilizare:
• oteluri aliate cu duritate medie
• oteluri nealiate





BIPICO

Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		Dantura constanta		Dantura variabila		
		TPI (Standard)	TPI (Hook)	TPI (Standard)	TPI (Hook)	
20 x 0,90	**3/4 x 0,035**	-	-	-	4/6	**46.23**
27 x 0,90	**1.1/6 x 0,042**	-	-	-	3/4, 4/6	**52.39**
34 x 1,10	**1.1/3 x 0,042**	-	-	-	3/4, 4/6	**67.80**
41 x 1,30	**1.5/8 x 0,050**	-	-	-	3/4, 4/6	**83.21**

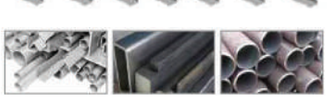
GOLD M42 Flex

Panza panglica pentru taierea tevilor, tuburilor si otelurilor de constructii

• geometrie a dintelui special conceputa, cu dinte dur pentru absorbtia socurilor la taierile intrerupte

Domeniu de utilizare:
• taierea tevilor, tuburilor si otelurilor de constructii





BIPICO

Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		Dantura constanta		Dantura variabila		
		TPI (Standard)	TPI (Hook)	TPI (Standard)	TPI (Hook)	
20 x 0,90	**3/4 x 0,035**	-	-	-	4/6, 5/8	**46.23**
27 x 0,90	**1.1/16 x 0,035**	-	-	-	2/3, 3/4, 4/6, 5/8	**52.39**
34 x 1,10	**1.1/3 x 0,042**	-	-	-	2/3, 3/4, 4/6, 5/8	**67.80**
41 x 1,30	**1.5/8 x 0,050**	-	-	-	2/3, 3/4, 4/6, 5/8	**83.21**

GOLD M42 Premium

Panza panglica pentru taierea in pachet a sectiunilor a materialelor pline si a profilelor

• geometrie a dintelui special conceputa cu unghi de degajare pozitiv, se asigura taierea in pachet a sectiunilor cu mai putine vibratii a materialelor pline si a profilelor.

Domeniu de utilizare:

- *oteluri de constructii*
- *oteluri pentru ambutisare*
- *oteluri speciale pentru uzinare*
- *oteluri rapide*
- *oteluri mediu aliate*
- *oteluri de nitrurare*
- *oteluri inoxidabile*





BIPICO

Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		Dantura constanta		Dantura variabila		
		TPI (Standard)	TPI (Hook)	TPI (Standard)	TPI (Hook)	
20 x 0,90	**3/4 x 0,035**	-	-	-	4/6	**46.23**
27 x 0,90	**1.1/16 x 0,035**	-	-	-	2/3, 3/4, 4/6	**52.39**
34 x 1,10	**1.1/3 x 0,042**	-	-	-	2/3, 3/4, 4/6	**67.80**
41 x 1,30	**1.5/8 x 0,050**	-	-	-	2/3, 3/4, 4/6, 1.4/2	**83.21**
54 x 1,60	**2.5/8 x 0,063**	-	1.25	-	2/3, 3/4, 1.4/2, 0,75/1.25	**164.89**
67 x 1,60	**3.3/16 x 0,63**	-	0.75, 1.25	-	2/3, 1.4/2, 0,75/1.25	**212.09**

GOLD M42 Ultima

Panza panglica pentru debitarea blocurilor de materiale si a materialelor pline

• geometrie a dintelui special conceputa cu unghi de degajare puternic pozitiv pentru taieri agresive

• se utilizeaza la debitarea blocurilor de materiale si a materialelor pline

Domeniu de utilizare:

- *oteluri pentru ambutisare*
- *oteluri rapide*
- *oteluri de cementare*
- *oteluri de nitrurare*
- *oteluri pentru scule*
- *oteluri calite si revenite*
- *oteluri pentru prelucrare la cald*





BIPICO

Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		Dantura constanta		Dantura variabila		
		TPI (Standard)	TPI (Hook)	TPI (Standard)	TPI (Hook)	
27 x 0,90	**1.1/16 x 0,035**	-	-	-	2/3, 3/4, 4/6	**52.39**
34 x 1,10	**1.1/3 x 0,042**	-	-	-	2/3, 3/4, 4/6	**67.80**
41 x 1,30	**1.5/8 x 0,050**	-	-	-	2/3, 3/4, 4/6, 1.4/2	**83.21**
54 x 1,60	**2.5/8 x 0,063**	-	1.25	-	2/3, 3/4, 1.4/2, 0.75/1.25	**164.89**
67 x 1,60	**3.3/16 x 0,63**	-	0.75, 1.25	-	2/3, 1.4/2, 0.75/1.25	**212.09**

GOLD M42 Alumina

Panza panglica pentru debitarea profile turnate din aluminiu si alte materiale neferoase / aliaje

• geometrie a dintelui special conceputa cu unghi de degajare puternic pozitiv pentru taieri agresive

Domeniu de utilizare:

- *profile turnate din aluminiu si alte materiale neferoase / aliaje*

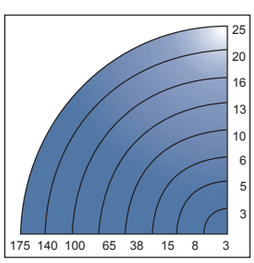




BIPICO

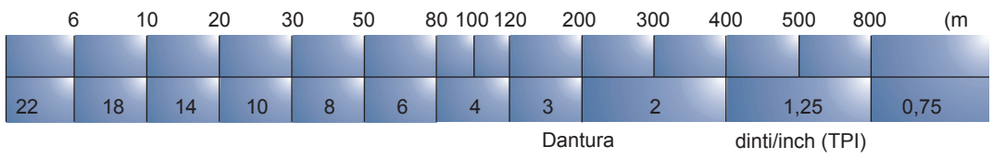
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		Dantura constanta		Dantura variabila		
		TPI (Standard)	TPI (Hook)	TPI (Standard)	TPI (Hook)	
20 x 0,90	**3/4 x 0,035**	-	3,6	-	-	**46.23**
27 x 0,90	**1.1/16 x 0,035**	-	3,6	-	-	**52.39**

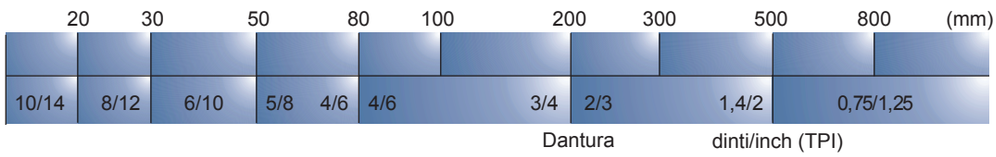


Pentru a selecta panza potrivita pentru o operatie de taiere, determinati cel mai mic arc (raza) de taiat si alegeti latimea corespunzătoare a lamei din diagrama de mai sus; cu cat arcul este mai mic, cu atat este mai ingusta panza. Panza panglica pentru metal Bipico este un instrument de inalta calitate, pentru a asigura o performanta optima si o durata de functionare optima, este esential sa selectati panza potrivita.

Dantura constanta - Diametru material solid



Dantura variabila - Diametru material solid



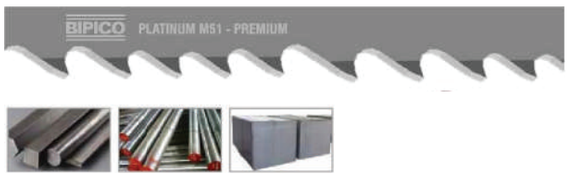
PLATINUM M51 Premium

Panza panglica pentru debitarea sectiunilor pline din materialele enumerate cu duritatea de pana la 45 HRC

• geometrie a dintelui speciala cu unghi de degajare pozitiv, caliatea superioara a materialului folosit M51 (10% cobalt) confera acestor panze o rezistenta deosebita si o capacitate de taiere superioara
• se foloseste pentru debitarea sectiunilor pline din materialele enumerate cu duritatea de pana la 45 HRC

Domeniu de utilizare:

- *oteluri pentru ambutisare*
- *oteluri speciale pentru unzinare*
- *oteluri tratate termic*
- *oteluri de cementare*
- *oteluri rapide*
- *oteluri aliate*
- *oteluri pentru prelucrare la rece*
- *oteluri de nitrurare*
- *oteluri pentru prelucrare la cald*
- *HSS*
- *fonta*
- *oteluri rezistente la temperatura inalta si la rugina*



BIPICO

Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		Dantura constanta		Dantura variabila		
		TPI (Standard)	TPI (Hook)	TPI (Standard)	TPI (Hook)	
27 x 0,90	**1.1/16 x 0,035**	-	-	-	2/3, 3/4, 4/6	**63.95**
34 x 1,10	**1.1/3 x 0,042**	-	-	-	2/3, 3/4, 4/6	**82.75**
41 x 1,30	**1.5/8 x 0,050**	-	-	-	2/3, 3/4	**104.78**
54 x 1,60	**2.5/8 x 0,063**	-	-	-	2/3	**188.60**

GOLD M51 Ultima

Panza panglica pentru debitarea sectiunilor pline din materialele enumerate cu duritatea de pana la 45 HRC

• geometrie a dintelui speciala cu unghi de degajare puternic pozitiv pentru taieri agresive, caliatea superioara a materialului folosit M51 (10% cobalt) confera acestor panze o rezistenta deosebita si o capacitate de taiere superioara
• se foloseste pentru debitarea sectiunilor pline din materialele enumerate cu duritatea de pana la 45 HRC

Domeniu de utilizare:

- *oteluri tratate termic*
- *oteluri de cementare*
- *oteluri inalt aliate*
- *oteluri pentru prelucrare la cald*
- *oteluri de nitrurare*
- *oteluri inoxidabile*
- *HSS*
- *fonta*
- *oteluri rezistente la temperatura inalta si la rugina*





BIPICO

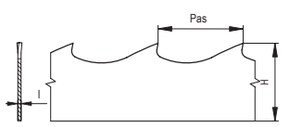
Sudura de la 6 la 41 mm: 28.2 lei/sudura

Dimensiune		dinti/inch				
		Dantura constanta		Dantura variabila		
		TPI (Standard)	TPI (Hook)	TPI (Standard)	TPI (Hook)	
34 x 1,10	**1.1/3 x 0,042**	-	-	-	2/3	**78,72**
41 x 1,30	**1.5/8 x 0,050**	-	-	-	2/3	**97,20**
54 x 1,60	**2.5/8 x 0,063**	-	-	-	2/3	**174,96**

Panza panglica pentru tamplarie

• se livreaza la colac de 50 m, ceaprazuita si ascutita
• pentru taierea dupa contur a materialului lemnos de esenta moale sau tare
• masini: fierastrau panglica de tamplarie
• avans manual





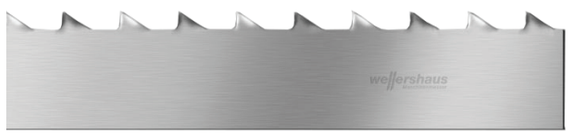
wellershaus Maschinenmesser

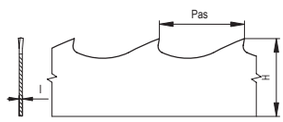
***S**udura: 8.0 lei/sudura*

	H	l	Pas	
W1005A5	10	0,5	5	**9,37**
W1205A5	12	0,5	5	**11,08**
W1505A6	15	0,5	6	**11,08**
W2005A6	20	0,5	6	**13,30**
W2506A8	25	0,6	8	**15,33**
W3006A8	30	0,6	8	**19,60**
W3506A10	35	0,6	10	**21,65**

Panza panglica pentru debitat busteni

• se livreaza la colac de 100 m, ceaprazuita, ascutita si cu dinte tratat
• pentru debitat busteni de diverse esente
• masini: fierastraie panglica orizontale
• avans manual





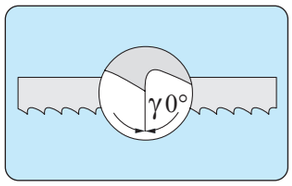
wellershaus Maschinenmesser

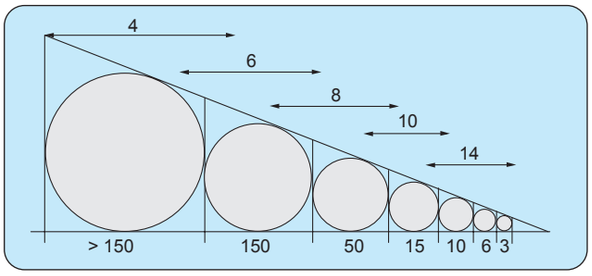
***S**udura: 8.0 lei/sudura*

	H	l	Pas	
W3209W22	32	0,9	22	**25,73**
W3509W22	35	0,9	22	**25,56**
W3810W22	38	1,0	22	**25,56**
W4010W22	40	1,0	22	**25,56**
W4011W22	40	1,1	22	**26,57**
W4510W22	45	1,0	22	**33,91**
W5010W22	50	1,0	22	**33,91**

Recomandari generale pentru utilizarea panzelor rectilinii pentru debitarea metalelor

Cum sa alegeti tipul de panze rectilinii corect
Alegerea panzei rectilinii cu numar corect de dinti pe tol depinde de dimensiunile si de tipul materialului debitat





10 dinti/25 mm - taierea materialelor subtiri de toate tipurile, ca de exemplu tuburi, tevi, profile, etc
10 dinti/25 mm - taierea tuturor tipurilor de materiale de dimensiuni mici si medii
6 dinti/25 mm - taierea tuturor tipurilor de material de grosime mai mare
4 dinti/25 mm - taierea materialului moale de grosime mai mare

DINTAREA RECOMANDATA PENTRU 25 MM (TPI) PENTRU FIECARE TIP DE MATERIAL			
Material	Diametrul materialului		
	10 - 30	30 - 100	100 - 250
	Dinti/tol (25 mm)		
Otel pentru masini Fier pentru constructii Otel de stuctura	14 - 8	8 - 6	6 - 4
Otel tratat la temperaturi mari Otel de nitrura	14 - 8	8 - 6	6 - 4
Otel pentru unelte fara aliaj Otel pentru unelte in aliaj	10 - 8	6 - 4	4
Otel pentru arcuri	14 - 8	8 - 6	6 - 4
Otel rezistent la temperature mari Otel inoxidabil	8 - 6	6 - 4	6 - 4
Fier maleabil pana la 200HB Fonta cenusie pana la 200HB	8 - 6	6 - 4	4
Fier de turnatorie	10 - 8	8 - 6	6 - 4
Bronz Dural Aluminiu Alama	6 - 4	6 - 4	6 - 4

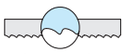
Numarul mic de dinti este potrivit pentru taierea materialelor mai groase iar numarul de dinti mai mare este potrivit pentru taierea profilelor subtiri.

Folosirea corecta a panzelor rectilinii

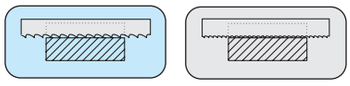
1. Este important sa acordam aceeasi atentie panzelor rectilinii ca si oricaror altor unelte.
2. Mentineti masina intr-o conditie tehnica foarte buna. Este important sa verificati urmatoarele lucruri:
a) bratul rabatabil si functia acestuia sunt in ordine
b) pompa de ulei a bratului rabatabil este curata si fara bule de aer.
3. Tensionati bine panza rectilinie in masina si aranjati-o in pozitia corecta.
4. Tensionati bine materialul de taiat in bucse astfel incat sa taie cat mai multi dinti posibil (cel putin 4, maxim 30).
5. In cazul taierii in pachet (mai multe bucati dintr-o data), asigurati-va ca fiecare bucata este prinsa bine.
6. In timpul taierii corpurilor din metal, asigurati-va ca ati indepartat urmele de praf de pe suprafata acestora folosind o pila bastard sau o perie din otel. Nisipul poate cauza deteriorarea rapida a panzei de ferastrau alternative.
7. Cand porniti masina, coborati rama ferastraului cu grija si modificati presiunea sau micsorati avansul ferastraului pentru primele taieturi (numai cand se utilizeaza o panza noua).
8. Nu folositi o presiune prea mare sau prea mica.
9. Folositi intotdeauna lichid de racire in timpul taierii.
10. Dupa doua sau trei taieri verificati tensiunea panzei.
11. Dupa o anumita perioada de taiere, verificati timpul necesar pentru o singura taiere. In cazul in care acesta este anormal de mare, inlocuiti imediat panza cu una noua.
12. Nu folositi niciodata o panza rectilinie noua in locul unei taieri cu o panza veche. Setarea panzei vechi era deja mai mica iar linia de taiere este prea ingusta pentru panza noua. Este necesara oprirea taierii, inlocuirea materialului taiat si inceperea unei noi taieri.

Defectiuni si cauzele acestora

1. Tocirea rapida

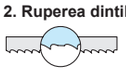


» daca se alege un numar de dinti gresit
» daca panza de ferastrau nu este tensionata cum trebuie
» daca viteza de taiere este prea mare - in special in cazul taierii materialelor dure
» daca presiunea este prea mare - dintii se tocesc foarte repede
» presiunea este insuficienta - dintii razuie dar nu taie materialul
» racirea este insuficienta
» daca apar defectiuni in mecanismul pentru taierea inversa

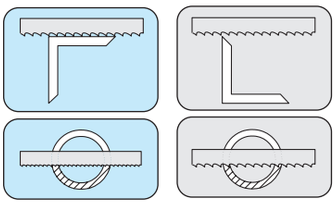


da nu

2. Ruperea dintilor



» pasul dintilor este prea mic (numar de dinti pe 25 mm) in timpul taierii lementelor subtiri
» in cazul taierii varfurilor ascutite sau corpurilor cu pereti subtiri, atunci cand mai putin de 4 dinti taie in acelasi timp
» daca materialul nu este bine intins



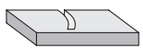
da nu

3. Ruperea panzei de fierastrau



» strangerea nejustificata a panzei de ferastrau in rama masinii
» alegerea gresita a panzei pentru un avans mare
» coborarea neatenta a ramei masinii
» materialul care trebuie taiat nu este intins bine
» folosirea unei panze rectilinii noi pe aceeasi linie de taiere trasata de o panza veche
» agatarea/prinderea materialului la sfarsitul taierii
» lagar defect in masina sau cursa defecta

4. Taierea curbata



» fixarea gresita a panzei in masina
» panza este insuficient tensionata
» materialul este tensionat insuficient
» presiune prea mare si panza aleasa gresit
» puncte dure in interiorul materialului
» masina deficienta - lagar uzat, rama nu este fixata

22 2961

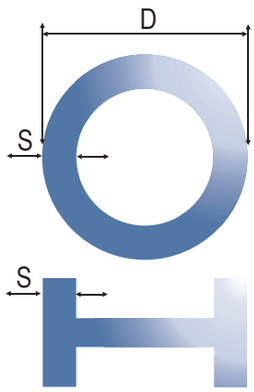
Panze rectilinii HSS

• panzele rectilinii sunt fabricate dintr-un otel suedez foarte eficient, intarit si ajustat pentru a face posibila o performanta de invidiat
• material HSS=Dmo5=DIN 1.3343 = CSN 19830
• dinti dispusi alternativ
• folosite pentru taierea otelurilor structurale, otelurilor pentru unelte si a otelurilor rapide, fontelor (de turnatorie), metalelor neferoase, materialelor solide, profilelor, tuburilor, metalelor



	L (mm)	H (mm)	S (mm)	TPI	Pret
6113561510	350	32	1,6	10	**45.77**
6114561500	400	32	1,6	6	**53.47**
4004020006	400	40	2,0	6	**78.13**
6114561508	400	32	1,6	8	**53.47**
4004020008	400	40	2,0	8	**78.13**
6115561500	450	32	1,6	6	**57.79**
6115561504	450	32	1,6	4	**57.79**
6115561508	450	32	1,6	8	**57.79**
6115561510	450	32	1,6	10	**57.79**
6115561514	450	32	1,6	14	**57.79**
4504020006	450	40	2,0	6	**83.68**
4504020008	450	40	2,0	8	**83.68**
4504020010	450	40	2,0	10	**83.68**
6116661504	500	40	2,0	4	**93.23**
6116661508	500	40	2,0	8	**93.23**
6116661510	500	40	2,0	10	**93.23**
6116661500	500	40	2,0	6	**93.23**
5505025006	550	50	2,5	6	**144.08**
5505025008	550	50	2,5	8	**144.08**
5505025004	550	50	2,5	4	**144.08**
6117761504	600	50	2,0	4	**145.62**
6117761508	600	50	2,0	8	**145.62**
6117761510	600	50	2,0	10	**145.62**
6117761500	600	50	2,0	6	**145.62**
6118761504	600	50	2,5	4	**145.62**
6118761500	600	50	2,5	6	**145.62**
6118761508	600	50	2,5	8	**145.62**
6505025004	650	50	2,5	4	**186.46**
6505025006	650	50	2,5	6	**186.46**
6505025008	650	50	2,5	8	**186.46**
1610510400	700	50	2,5	6	**200.79**
1610510404	700	50	2,5	4	**200.79**
1610510408	700	50	2,5	8	**200.79**

PENTRU DETERMINAREA PASULUI CORECT AL DINTILOR LA TAIEREA TEVILOR SI PROFILELOR



D (mm) / S (mm)	20	40	60	80	100	150	200	300	500
	Tooth pitch (TPI)								
2	14	14	14	14	10/14	10/14	10/14	10/14	8/12
3	14	10/14	10/14	8/12	8/12	8/12	6/10	6/10	6/10
4	14	10/14	10/14	8/12	8/12	6/10	6/10	5/8	4/6
5	14	10/14	10/14	8/12	6/10	6/10	5/8	4/6	4/6
6	14	10/14	8/12	8/12	6/10	5/8	5/8	4/6	4/6
8	14	8/12	6/10	6/10	6/10	5/8	5/8	4/6	4/6
10		6/10	6/10	5/8	5/8	4/6	4/6	4/6	3/4
12		6/10	5/8	4/6	4/6	4/6	4/6	3/4	3/4
15				4/6	4/6	3/4	3/4	3/4	2/3
20				4/6	4/6	3/4	3/4	3/4	2/3
30				3/4	3/4	3/4	2/3	2/3	2/3
50						2/3	2/3	2/3	1.4/2
75							2/3	1.4/2	1.4/2
100								1.4/2	0.75/1.25
150									0.75/1.25

Panza rectilinie Bi-Metal

• utilizare: diverse materiale, oteluri aliate, oteluri inoxidabile etc., in special otel cu rezistenta la rupere < 1100 N/mm²



BIPICO

	L	H	I	Pas	
4003201606B	400	32	1,60	6 TPI	**37,17**
6004502256B	600	45	2,25	6 TPI	**127,73**
7005002506B	700	50	2,50	6 TPI	**162,91**

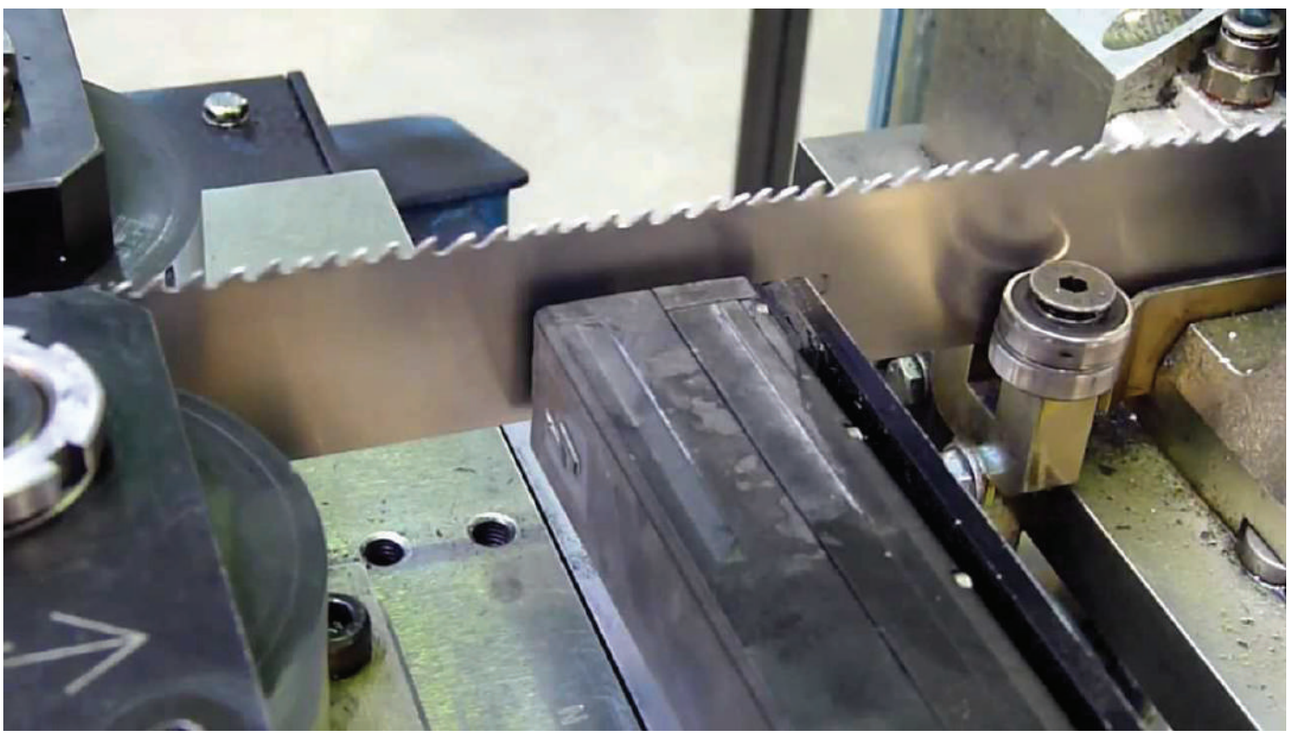
Panza rectilinie HSS

• utilizare: diverse materiale, bare, tevi, diverse profile etc., in special otel cu rezistenta la rupere < 700 N/mm²



BIPICO

	L	H	I	Pas	
4003201606	400	32	1,60	6 TPI	**48,49**
6004502256	600	45	2,25	6 TPI	**146,24**
7505002506	750	50	2,50	6 TPI	**222,72**
9005002506	900	50	2,50	6 TPI	**267,55**



Performanta unei lame de fierastrau depinde de calitatea materialului de baza, de tipul de dantura si de geometria dintilor.
Acesti factori garanteaza impreuna cu utilizarea corecta a masinii si a selectiei lamei rezultatul optim in taierea tuturor materialelor.

Calitatea materialului:

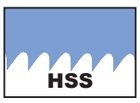


Otel aliat pentru scule



Aliaj din otel pentru scule cu dinti de carbura de tungsten sau cu tais de carbura de tungsten.



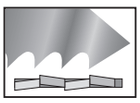


Otel rapid HSS

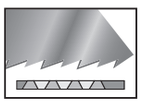


Otel aliat cu dantura diamantata

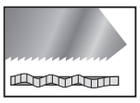
Tipuri de dantura:



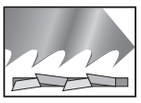
ceaprazuire laterala
taieri grosiere



sectiune trapezoidala, dinti ascutiti in diagonala
taieri de precizie, curate



ceaprazuire ondulata
taieri fine si curate



ceaprazuire laterala, dinti ascutiti in diagonala
taieri rapide, grosiere

Materiale:



Lemn



Metal

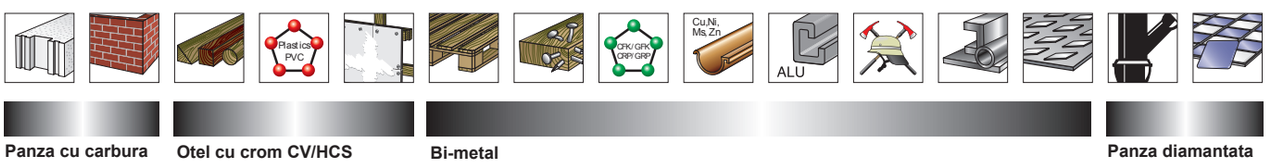


Universal

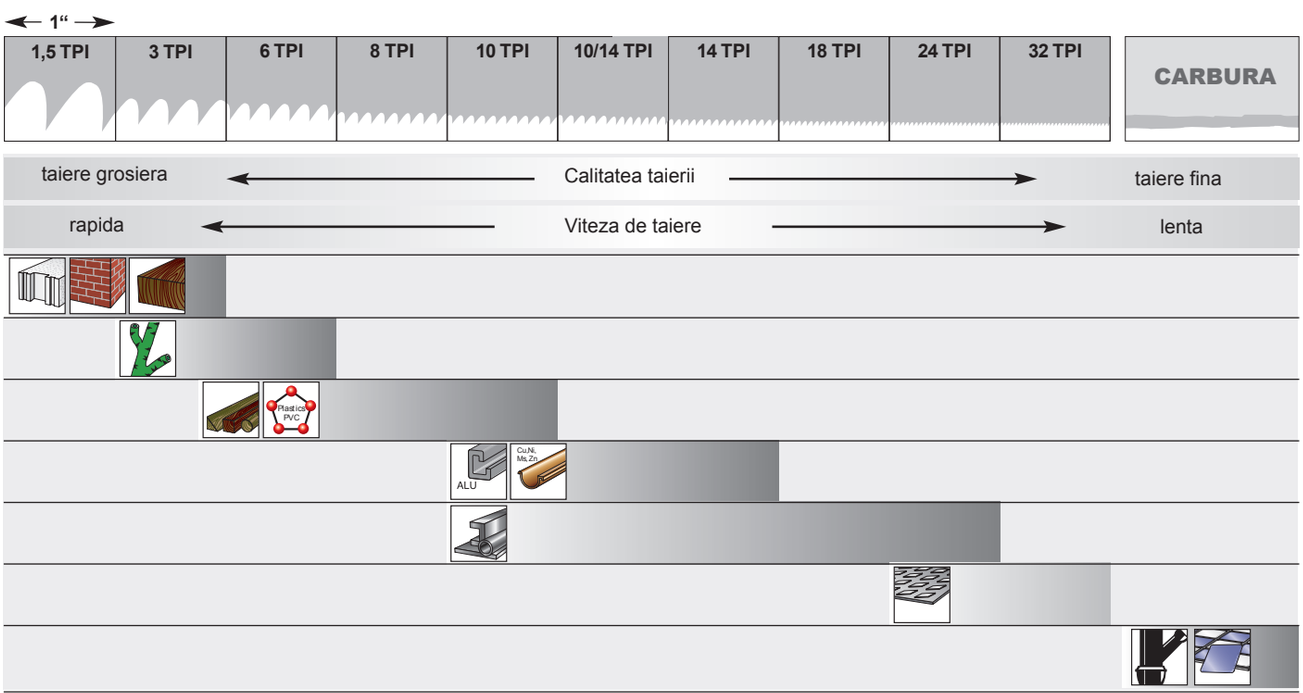


Special

Ghid de selectare al panzei:

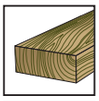


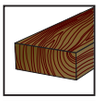
Ghid de selectare al pasului dintilor (TPI):

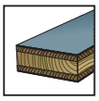


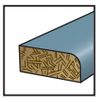
LEGENDA PICTOGRAMELOR

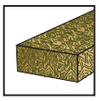

Toate tipurile de lemn

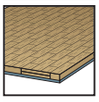

Lemn de esenta moale


Lemn de esenta tare

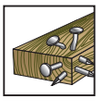

Placi furniruite

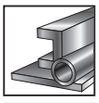

PAL melaminat


PAL

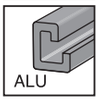

Parchet laminat


Lemn verde


Lemn cu cuie


Tevi si profile din otel


Tabla



Aluminiu



metale neferoase


Fonta



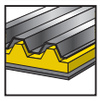
Otel inoxidabil

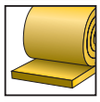


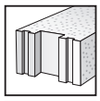
Plastic



Fibra de carbon


Material sandwich


Material izolant


BCA

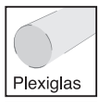

Fibrociment


Polistiren espandat


Gips-carton



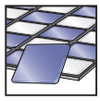
Fibra de sticla



Plexiglas

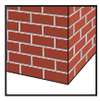

Sticla


Tamplarie PVC


Placi ceramice



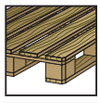
Varicor / Corian


Caramida


Cauciuc


Piele


Gheata / alimente inghetate


Reparare paleti


Carton / hartie


Demolari

CARACTERISTICI


Dantura in revers



Taiere rapida


Taiere curba



Taiere dreapta

Taiere dreapta

Taiere grosiera

Durata lunga de utilizare

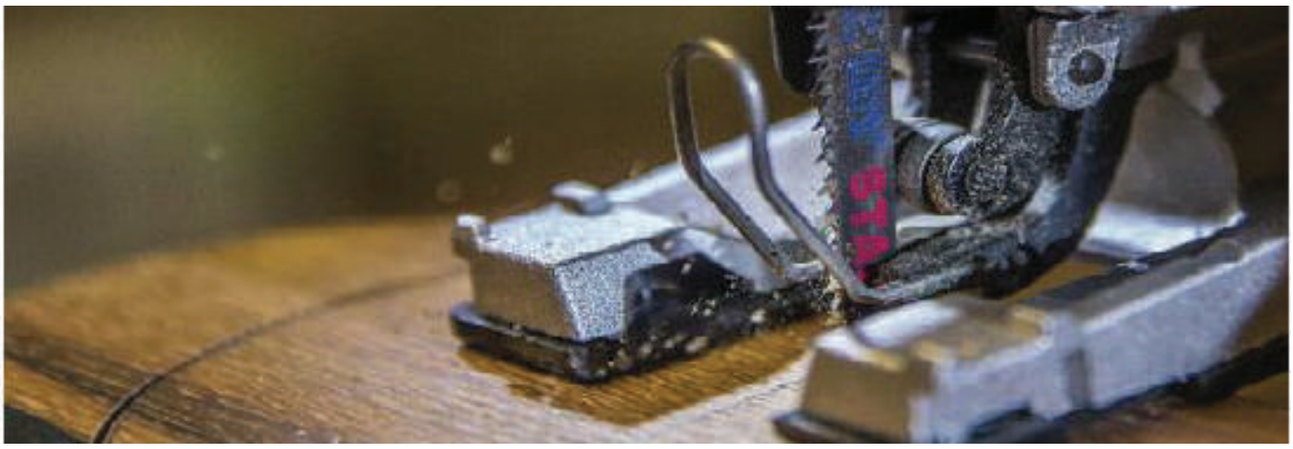
Dantura TWINCUT

Potrivit pentru maner
Multi-Tool

pentru fierastraie verticale: **AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer**

WILPU	AEG	BOSCH	FESTOOL	LENOX	MAKITA	METABO	MILWAUKEE
HC 19 R bi	373083	T101AIF	–	–	P31566	23948	–
HC 123 Star	–	T234X	–	–	–	23675	430 141
HC 19 R Star	–	T308B	–	–	–	–	–
HC 12	254061	T101B	S75/2,5	450S	B11/A85634	23634	48-42-5240
HC 12 bi	373390	T101BF	S75/2,5 bi	–	P31594	23975	48-42-5311
HC 12 D	373389	–	–	–	–	–	–
HC 22 DV	–	–	–	–	–	–	430 143
HC 12 K	373392	T101AO	S50K/1,4	320SC	–	23695	48-42-5385
HC 12 R	346079	T101BR	–	450SR	B19/A85715	23650	48-42-5540
HC 12 R bi	–	T101BRF	HS75/2,5 BI R	–	–	23686	–
HC 32	–	–	–	–	–	–	–
HC 32 R	348072	–	–	–	–	–	–
HC 13	–	–	–	–	–	23969	–
HC 13 bi	–	–	HS75/3 Bi FC	–	–	–	–
HC 33	399306	T301CD	–	–	B10/A85628	23654	–
HC 14	274351	T101D	–	456S	B12/A85640	23635	48-42-5500
HC 14 D	373080	T101DP	S75/4FS	–	–	23655	–
HC 14 XD BI	–	–	–	–	–	–	–
HC 34	346071	–	–	–	–	–	–
HC 34 D	373388		–	–	A86290	–	–
HCGS 14 D	399237	–	S75/4FSG	–	–	–	–
HG 13	254071	T111C	–	410S	B13/A85656	23632	48-42-5220
HG 13 G	254071	T111C	–	–	B13/A85656	23632	–
HGS 14	213116	T144D	S75/4	406S	B16/A85684	23633	48-42-5421
HGS 14 bi	373391	T144DF	S75/4BI	–	P31588	23976	48-42-5300
HGS 24	346078	T244D	S75/4K	416SC	B17/A85690	23649	48-42-5512
HGS 24 DV	265312	–	–	–	P31572	–	–
HGS 34	311633	T344D	S105/4	–	L2/P06454	23678	–
HGS 54	354745	T744D	–	686S	A86315	23603	–
HW 11	274352	–	–	–	B14/A85662	23630	–
HW 12	274353	T119B	–	–	B15/A85678	23631	–
HW 12 K	274650	T119BO	–	BT 318 SC	B18/A85709	23646	48-42-5640
MC 12 bi	274651	T101A	–	–	B21/A85721	23640	–
MG 107	274652	T118G	–	–	B24/A85759	23636	–
MG 107 bi	–	T118GFS	–	–	–	–	–
MG 11	254063	T118A	–	–	B22/A85737	23637	–
MG 11 bi	340011	T118AF	HS60/1,2BI	318S/324S	P47226	23971	48-42-5161
HM 11	373393	T118AHM	–	–	P-05929	23662	–
MG 21	346082	T218A	–	–	B27/A85787	23647	–
MG 31	399307	T318A	–	–	–	23629	–
MG 31 bi	274654	T318AF	HS105/1,2BI	518S	P47204	23978	48-42-5166
MG 51 bi	373086	–	HS155/1,2BI	–	P49644	23604	–
MG 14 bi	340013	T118EF	HS60/1,4bi	–	–	23972	48-42-5121
MG 1014 bi	–	T111HF	–	340SV	P49622	23949	48-42-5310
MGL 1014 bi	–	T345XF	–	–	P49638	23677	–
MG 3059 BI	–	T123XF	–	–	–	–	430 142
MG 12	254064	T118B	–	–	B23/A85743	23638	48-42-5101
MG 12 bi	340012	T118BF	HS60/2bi	314S	P47232	23973	48-42-5190
MG 32 bi	274653	T318BF	HS105/2bi	–	P47210	23979	48-42-5192
MG 52 BI	–	T718BF	–	–	–	623604	–
K 14	274315	T127D	–	–	B25/A85765	23639	–
K 14 bi	340014	–	HS75/3bi	–	–	23974	48-42-5850
K 24	346081	T227D	–	–	B26/A85771	23648	–
ST 006 bi	–	–	–	–	P45733	–	–
STL 007 bi	–	–	–	–	P45749	–	–
HM 33	–	T 301 CHM	–	–	–	–	–
Messer/HWL 100	213098	T113A	–	–	–	23641	48-42-5700
HWL 54	–	T313AW	S155/W	–	–	23684	–
Sortiment 2000	254070	–	–	–	P24583	–	–
D 1	213231	T130Riff	–	300SG	P38788	23657	48-42-5700
D 2	213232	T150Riff	R54/G	–	P38794	23658	–
HM 100	399308	T141HM	HM75/4,5	–	P38766	23652	–
HM 132	373387	T341HM	HM105/4,5	–	P38772	23688	–
DT 1	373393	T130GD	–	–	–	–	–
DT 2	373394	–	–	–	–	–	–

Lemn Metal Universal Special

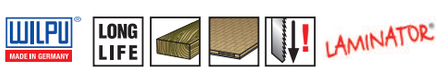


HC 19 R BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala, orientare in revers*
- *ideala pentru placi melaminate 2,5-20 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T101 AIF

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02104 00005	1,9 mm / 13 tpi	55 mm	80 x 7,9 x 1,27 mm	5	**44,07**
02104 00025	1,9 mm / 13 tpi	55 mm	80 x 7,9 x 1,27 mm	25	**265,67**
02104 00011	1,9 mm / 13 tpi	55 mm	80 x 7,9 x 1,27 mm	25 x 5	**1327,87**

HC 19 R STAR

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala, orientare in revers*
- *ideala pentru lemn moale, PAL, PAL melaminat, parchet, placi multiplex 1,9-40 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



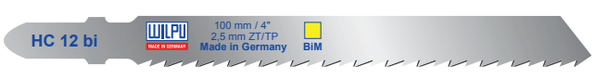
Ref. BOSCH: T308B

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02106 00005	1,9 mm / 13 tpi	91 mm	117 x 10 x 1,45 mm	5	**43,76**
02106 00025	1,9 mm / 13 tpi	91 mm	117 x 10 x 1,45 mm	25	**197,55**

HC 12 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *ideala pentru toate tipurile de lemn, plastic 3-30 mm*
- *taiere curata*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T101BF

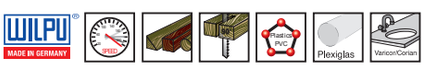
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02111 0005	2,5 mm / 10 tpi	75 mm	100 x 7,8 x 1,27 mm	5	**59,17**

HC 123 STAR

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti cu tripla ascutire*
- *ideala pentru lemn si plastic 3-60 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T234X

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02105 00002	2,5 mm/10 tpi	91 mm	117 x 10 x 1,45 mm	2	**15,11**
02105 00005	2,5 mm/10 tpi	91 mm	117 x 10 x 1,45 mm	5	**43,61**
02105 00025	2,5 mm/10 tpi	91 mm	117 x 10 x 1,45 mm	25	**190,00**
02105 00011	2,5 mm/10 tpi	91 mm	117 x 10 x 1,45 mm	25 x 5	**980,84**

HC 12

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *ideala pentru toate tipurile de lemn, plastic 3-30 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





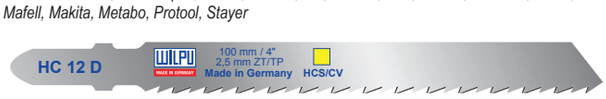
Ref. BOSCH: T101B

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02110 00002	2,5 mm/10 tpi	75 mm	100 x 7,8 x 1,45 mm	2	**15,27**
02110 00005	2,5 mm/10 tpi	75 mm	100 x 7,8 x 1,45 mm	5	**27,10**
02110 00025	2,5 mm/10 tpi	75 mm	100 x 7,8 x 1,45 mm	25	**150,40**
02110 00099	2,5 mm/10 tpi	75 mm	100 x 7,8 x 1,45 mm	100	**571,70**

HC 12 D

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *ideala pentru lemn, PAL melaminat, plastic 3-30 mm*
- *taiere dreapta*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





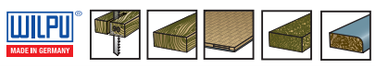
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02112 00005	2,5 mm / 10 tpi	75 mm	100 x 7,8 x 1,68 mm	5	**38,37**

HC 22 DV

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curbe si curate*
- *ideala pentru lemn moale, PAL, placi laminate, parchet, PAL melaminat, multiplex 2,5-35 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
02176 00005	2,5 mm / 10 tpi	75 mm	100 x 6,5 x 1,45 mm	5	28,66

HC 12 R

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala, orientare in revers*
- *taieri curate*
- *ideala pentru toate tipurile de lemn si plastic 3-30 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T101BR

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02114 00002	2,5 mm / 10 tpi	75 mm	100 x 7,8 x 1,45 mm	2	12,94
02114 00005	2,5 mm / 10 tpi	75 mm	100 x 7,8 x 1,45 mm	5	34,98

HC 32

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curate*
- *ideala pentru toate tipurile de lemn si plastic 3-65 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



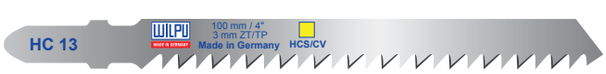


	TPI	Lungime taiere	Dimensiuni	Ambalare	
02120 00005	2,5 mm / 10 tpi	105 mm	132 x 7,8 x 1,45 mm	5	36,83

HC 13

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curate si rapide*
- *ideala pentru toate tipurile de lemn si plastic 8-40 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





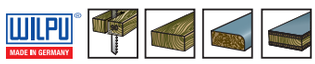
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02140 00002	3 mm / 8,5 tpi	75 mm	100 x 7,8 x 1,45 mm	2	13,56
02140 00005	3 mm / 8,5 tpi	75 mm	100 x 7,8 x 1,45 mm	5	34,98

HC 12 K

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curbe si curate*
- *ideala pentru lemn moale, placi furniruite, placi melaminate 1,5-15 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





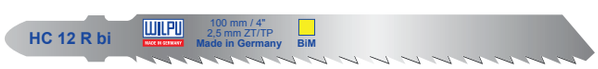
Ref. BOSCH: T101AO

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02113 00002	1,35 mm / 19 tpi	50 mm	76,5 x 4,5 x 1,25 mm	2	11,40
02113 00005	1,35 mm / 19 tpi	50 mm	76,5 x 4,5 x 1,25 mm	5	25,73

HC 12 R BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala, orientare in revers*
- *taieri curate*
- *ideala pentru toate tipurile de lemn si plastic 3-30 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T101BRF

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02115 00005	2,5 mm / 10 tpi	75 mm	100 x 7,8 x 1,27 mm	5	44,69

HC 32 R

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala, orientare in revers*
- *taieri curate*
- *ideala pentru toate tipurile de lemn si plastic 3-65 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



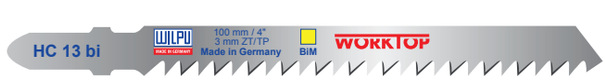


	TPI	Lungime taiere	Dimensiuni	Ambalare	
02124 00005	2,5 mm / 10 tpi	105 mm	132 x 7,8 x 1,45 mm	5	36,83

HC 13 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curate si rapide*
- *ideala pentru toate tipurile de lemn si plastic 8-40 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
02141 00005	3 mm / 8,5 tpi	75 mm	100 x 7,8 x 1,27 mm	5	44,07

HC 33

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curate*
- *ideala pentru toate tipurile de lemn si plastic 8-65 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T301CD

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02150 00005	3 mm / 8,5 tpi	105 mm	132 x 7,8 x 1,45 mm	5	51,01

HC 14 D

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curate si drepte*
- *ideala pentru lemn, placi melaminate si plastic 10-45 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T101DP

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02172 00005	4 mm / 6,35 mm	75 mm	100 x 7,8 x 1,68 mm	5	27,74
02172 00020	4 mm / 6,35 mm	75 mm	100 x 7,8 x 1,68 mm	20	138,23

HC 34

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curate si drepte*
- *ideala pentru toate tipurile lemn si plastic 10-65 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



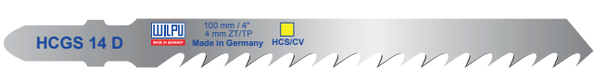


	TPI	Lungime taiere	Dimensiuni	Ambalare	
02180 00005	4 mm / 6,35 tpi	105 mm	132 x 7,8 x 1,45 mm	5	51,01
02180 00025	4 mm / 6,35 tpi	105 mm	132 x 7,8 x 1,45 mm	25	230,07

HCGS 14 D

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala si ceaprazuiti din lateral*
- *taieri rapide si drepte*
- *ideala pentru toate tipurile de lemn 10-50 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
02222 00005	4 mm / 6,35 mm	75 mm	100 x 7,8 x 1,68 mm	5	39,14

HC 14

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curate si rapide*
- *ideala pentru toate tipurile de lemn si plastic 10-45 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T101D

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02170 00002	4 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,45 mm	2	11,40
02170 00005	4 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,45 mm	5	33,44
02170 00025	4 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,45 mm	25	150,40
02170 00099	4 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,45 mm	100	571,70

HC 14 XD BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru lemn

- *pentru taieri precise si curbe in lemn de pana la 50 mm*
- *ideala pentru taieri cu bare de ghidaj*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. MAFELL: W1 WOOD

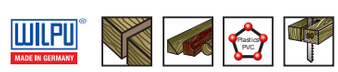
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02173 00002	4 mm / 6,35 mm	75 mm	100 x 8 x 2,5 mm	2	74,12

HC 34 D

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curate si drepte*
- *ideala pentru lemn moale, placi melaminate si plastic 10-65 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



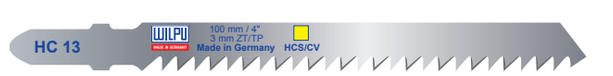


	TPI	Lungime taiere	Dimensiuni	Ambalare	
02182 00005	4 mm / 6,35 tpi	105 mm	132 x 7,8 x 1,45 mm	5	40,68

HC 13

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *dinti ascutiti si ceaprazuiti din lateral*
- *ideala pentru lemn moale si plastic 4-50 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T111C

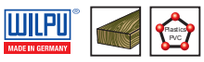
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02280 00005	3 mm / 8,5 tpi	75 mm	100 x 9,8 x 1,27 mm	5	18,34
02280 00025	3 mm / 8,5 tpi	75 mm	100 x 9,8 x 1,27 mm	25	98,62
02280 00099	3 mm / 8,5 tpi	75 mm	100 x 9,8 x 1,27 mm	100	375,08

HG 13 G

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *dinti frezati cu ceaprazuire din lateral*
- *ideala pentru lemn moale si plastic 4-50 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T111C

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02290 00005	3 mm / 8,5 tpi	75 mm	100 x 8,0 x 1,0 mm	5	**22,04**

HGS 14 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru lemn

- *dinti ascutiti in diagonala si ceaprazuiti din lateral*
- *taiere rapida*
- *ideala pentru toate tipurile lemn 5,0-50 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T144DF

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02361 00005	4 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,27 mm	5	**37,75**

HGS 24 DV

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *dantura dubla, dinti ascutiti in diagonala si ceaprazuiti din lateral*
- *taiere rapida, curba*
- *ideala pentru toate tipurile lemn 5,0-50 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
02376 00005	4 mm / 6,35 tpi	75 mm	100 x 6,5 x 1,27 mm	5	**25,27**

HGS 54

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *dinti ascutiti in diagonala si ceaprazuiti din lateral*
- *taiere rapida*
- *ideala pentru toate tipurile de lemn 5,0-120 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T744DF

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02390 00005	4 mm / 6,35 tpi	155 mm	180 x 7,8 x 1,27 mm	5	**67,50**

HGS 14

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *dinti ascutiti in diagonala si ceaprazuire din lateral*
- *taiere rapida*
- *ideala pentru toate tipurile lemn 5,0-50 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T144D

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02360 00002	4 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,27 mm	2	**10,79**
02360 00005	4 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,27 mm	5	**24,81**
02360 00025	4 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,27 mm	25	**110,95**
02360 00099	4 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,27 mm	100	**421,77**

HGS 24

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *dinti ascutiti in diagonala si ceaprazuiti din lateral*
- *taiere rapida, curba*
- *ideala pentru toate tipurile lemn 5,0-50 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T244D

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02370 00002	4 mm / 6,35 tpi	75 mm	100 x 6,5 x 1,27 mm	2	**11,10**
02370 00005	4 mm / 6,35 tpi	75 mm	100 x 6,5 x 1,27 mm	5	**30,36**
02370 00025	4 mm / 6,35 tpi	75 mm	100 x 6,5 x 1,27 mm	25	**136,22**
02370 00099	4 mm / 6,35 tpi	75 mm	100 x 6,5 x 1,27 mm	100	**515,30**

HGS 34

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *dinti ascutiti in diagonala si ceaprazuiti din lateral*
- *taiere rapida*
- *ideala pentru toate tipurile de lemn 5,0-50 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell,Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T344D

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02380 00005	4 mm / 6,35 tpi	105 mm	132 x 7,8 x 1,27 mm	5	**46,85**

HGS 74

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *dinti ascutiti in diagonala si ceaprazuiti din lateral*
- *lama foarte lunga si grosa pentru tăieri rapide, drepte, unghiulare precise in lemn (5,0-160 mm)*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T1044DP

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02395 00003	4 mm / 6,35 tpi	205 mm	250 x 19 x 1,27 mm	5	**59,33**

HW 12

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *dinti frezati, ceaprazuire ondulata*
- *ideala pentru lemn moale si materiale izolante 2,0-15 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T119B

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02410 00005	2 mm / 13 tpi	50 mm	76,5 x 7,8 x 1,0 mm	5	15,26

HW 12 K

Panza HCS/CV pentru fierastrau vertical, prindere T, pentru lemn

- *dinti frezati, ceaprazuire ondulata*
- *taieri curbe*
- *ideala pentru lemn moale si materiale izolante 2,0-15 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



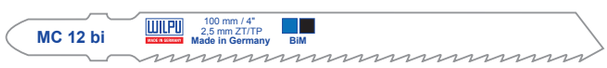
Ref. BOSCH: T119BO

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02413 00005	2 mm / 13 tpi	50 mm	76,5 x 7,8 x 1,0 mm	5	18,18

MC 12 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru neferoase

- *panza cu sectiune trapezoidala, dinti frezati*
- *ideala pentru plexiglas, policarbonat, metale neferoase, aluminiu 2,0-20 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T101A

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02501 00005	2,5 mm / 10 tpi	75 mm	100 x 7,8 x 1,27 mm	5	39,76

MG 107

Panza HSS pentru fierastrau vertical, prindere T, pentru metal

- *dinti frezati, ceaprazuire ondulata*
- *ideala pentru tabla subtire 0,5-1,5 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T118G

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02520 00005	0,7 mm / 36 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	32,98

MG 107 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru metal

- *dinti frezati, ceaprazuire ondulata*
- *ideala pentru tabla subtire si otel inoxidabil 0,5-1,5 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
02521 00005	0,7 mm / 36 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	30,97

MG 11

Panza HSS pentru fierastrau vertical, prindere T, pentru metal

- *dinti frezati, ceaprazuire ondulata*
- *ideala pentru tabla subtire 1,2-2 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T118A

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02550 00002	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	2	10,32
02550 00005	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	22,81
02550 00025	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	25	142,23
02550 00099	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	100	540,42

MG 11 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 1,2-2 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T118AF

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02551 00005	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	31,90
02551 00025	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	25	192,78

MG 21

Panza HSS pentru fierastrau vertical, prindere T, pentru metal

- *dinti frezati, ceaprazuire ondulata*
- *taiere curba*
- *ideala pentru tabla subtire si otel 1,2-2 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T218A

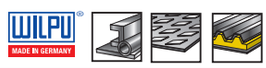
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02560 00005	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	29,59

MG 31

Panza HSS pentru fierastrau vertical, prindere T, pentru metal

- *dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel 1,0-3,0 mm, tevi, profile si material sandwich pana la 80 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





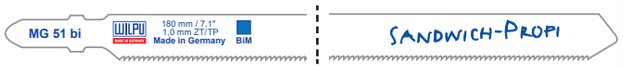
Ref. BOSCH: T318A

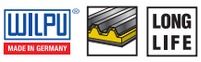
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02570 00005	1,0 mm / 25 tpi	105 mm	132 x 9,8 x 1,0 mm	5	**55,63**

MG 51 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru material sandwich

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru material sandwich 1,5-120 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





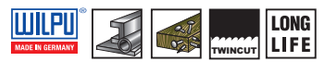
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02575 00005	1,0 mm / 25 tpi	155 mm	180 x 9,8 x 1,0 mm	5	**66,57**

MG 3016 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru lemn cu cuie

- *panza flexibila, dinti frezati, ceaprazuire ondulata, Twin-Cut*
- *ideala pentru otel 2,5-10 mm, lemn cu cuie <50 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T123XF

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02641 00005	1,3-2,0 mm/13-19 tpi	91 mm	116 x 9,8 x 1,0 mm	5	**51,16**

MG 12

Panza HSS pentru fierastrau vertical, prindere T, pentru neferoase

- *dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel, metale neferoase, aluminiu 2,5-6,0 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T118B

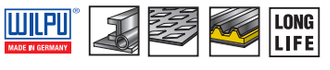
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02650 00002	2 mm / 13 tpi	55 mm	76,5 x 7,8 x 1,0 mm	2	**10,02**
02650 00005	2 mm / 13 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	**32,67**
02650 00025	2 mm / 13 tpi	55 mm	76,5 x 7,8 x 1,0 mm	25	**147,16**

MG 31 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel 1,0-3,0 mm, tevi, profile si material sandwich pana la 80 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T318AF

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02571 00002	1,0 mm / 25 tpi	105 mm	132 x 9,8 x 1,0 mm	2	**21,57**
02571 00005	1,0 mm / 25 tpi	105 mm	132 x 9,8 x 1,0 mm	5	**68,11**

MG 14 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 1,5-2,2 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T318A

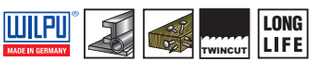
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02581 00005	1,4 mm / 18 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	**44,38**

MG 1014 BI

Panza HSS pentru fierastrau vertical, prindere T, pentru metal

- *dinti frezati, ceaprazuire ondulata*
- *ideala pentru tabla subtire 1,2-2 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T345XF

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02621 00005	1,8-2,5 mm/14-10 tpi	75 mm	100 x 9,8 x 1,0 mm	5	**40,37**
02631 00005	1,8-2,5 mm/14-10 tpi	91 mm	132 x 9,8 x 1,0 mm	5	**54,86**

MG 12 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru metale feroase si neferoase

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel, otel inoxidabil, metale neferoase, aluminiu 2,5-6,0 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T118BF

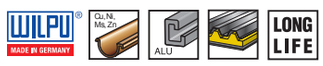
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02651 00005	2 mm / 13 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	**31,90**

MG 32 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru metale feroase si neferoase

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel 2,5-6,0 mm, tevi, profile si material sandwich pana la 80 mm,*
- *metale neferoase*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





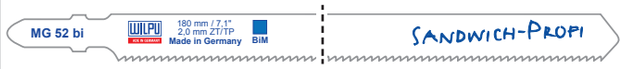
Ref. BOSCH: T318BF

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02671 00005	1,0 mm / 25 tpi	105 mm	132 x 9,8 x 1,0 mm	5	55,63

MG 52 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru materiale sandwich

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru material sandwich pana la 120 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T718BF

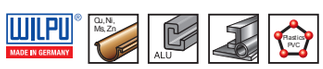
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02675 00005	2 mm / 12 tpi	155 mm	180 x 9,8 x 1,0 mm	5	66,57

K 14

Panza HSS pentru fierastrau vertical, prindere T, pentru metale neferoase

- *dinti frezati, ceaprazuire din lateral*
- *ideala pentru metale neferoase si aluminiu 3,0-15 mm, otel 3,0-30 mm, plastic*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





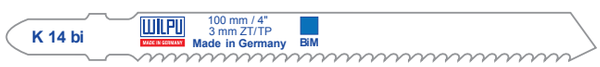
Ref. BOSCH: T127D

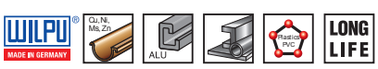
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02760 00005	3 mm / 8,5 tpi	75 mm	100 x 7,8 x 1,0 mm	5	35,75
02760 00099	3 mm / 8,5 tpi	75 mm	100 x 7,8 x 1,0 mm	100	579,41

K 14 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, pentru metale neferoase

- *panza flexibila, dinti frezati, ceaprazuire din lateral*
- *ideala pentru metale neferoase si aluminiu 3,0-15 mm, otel 3,0-30 mm, plastic*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





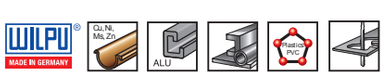
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02761 00005	3 mm / 8,5 tpi	75 mm	100 x 7,8 x 1,0 mm	5	34,21

K 24

Panza HSS pentru fierastrau vertical, prindere T, pentru metale neferoase

- *dinti frezati, ceaprazuire din lateral*
- *taiere curba*
- *ideala pentru metale neferoase si aluminiu 3,0-15 mm, otel 3,0-30 mm, plastic*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T227D

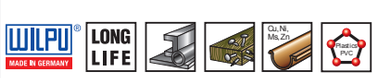
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02780 00005	3 mm / 8,5 tpi	75 mm	100 x 7,8 x 1,0 mm	5	32,82

ST 006 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, multimaterial

- *taiere in ambele directii*
- *taiere rapida si precisa*
- *recomandata pentru otel de pana la 1/16" si alte materiale*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





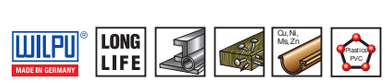
	TPI	Lungime taiere	Dimensiuni	Ambalare	
02800 00005	dantura-M	75 mm	100 x 9,8 x 1,0 mm	5	81,83

STL 007 BI

Panza Bi-Metal pentru fierastrau vertical, prindere T, multimaterial

- *dantura patentata "M" pentru inalta performanta*
- *taiere in ambele directii*
- *taiere rapida si precisa*
- *recomandata pentru otel de pana la 1/16" si alte materiale*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
02805 00005	dantura-M	105 mm	133 x 9,6 x 1,27 mm	5	114,79

HM 33

Panza T.C.T. pentru fierastrau vertical, prindere T, multimaterial

- *dantura cu carbura*
- *recomandata pentru fibra de sticla, epoxy, Varicor, Corian < 65 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*





Ref. BOSCH: T301CHM

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02595 00002	3,3 mm / 13 tpi	91 mm	116 x 10 x 1,25 mm	2	122,20



HWL 100

Panza HCS/CV pentru fierastrau vertical, prindere T, cauciuc si piele

- *lama cu dantura ondulata*
- *ideala pentru cauciuc moale, piele, plastic, materiale izolante 1,0-50 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T113A

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02850 00005	ondulata	75 mm	100 x 9,7 x 1,27 mm	5	**52,09**

HWL 54

Panza HCS/CV pentru fierastrau vertical, prindere T, cauciuc si piele

- *lama cu dantura ondulata*
- *ideala pentru cauciuc, piele, plastic, materiale izolante, carton, covoare, spuma artificiala 1,0-120 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T313AW

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02851 00005	ondulata	155 mm	180 x 9,7 x 1,27 mm	5	**119,27**

D 1

Panza HM pentru fierastrau vertical, prindere T, pentru sticla si ceramica

- *panza cu carbura grosiera*
- *ideala pentru sticla, placi ceramice, produse ranforsate cu fibra de sticla 5,0-15 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool*



Ref. BOSCH: T130Riff

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02880 00003	-	54 mm	79 x 8,8 x 2,3 mm	3	**87,52**

D 2

Panza HM pentru fierastrau vertical, prindere T, sticla si ceramica

- *panza cu carbura fina*
- *ideala pentru sticla, placi ceramice, produse ranforsate cu fibra de sticla 5,0-15 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T150Riff

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02885 00003	-	54 mm	79 x 8,8 x 2,3 mm	3	**84,75**

HM 11

Panza HM pentru fierastrau vertical, prindere T, pentru metal

- *dinti cu carbura*
- *ideala pentru otel, tabla, otel inoxidabil 1,5-3,0 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T118AHM

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02555 00002	1,1 mm	50 mm	79 x 8,8 x 2,3 mm	2	**68,88**

HM 100

Panza HM pentru fierastrau vertical, prindere T, multimaterial

- *dinti cu carbura tungsten*
- *ideala pentru produse ranforsate cu fibra de sticla, lemn dur, BCA 5.0 - 20 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T141HM

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02890 00001	4,2 mm	75 mm	100 x 7,8 x 1,9 mm	1	**62,10**

HM 132

Panza HM pentru fierastrau vertical, prindere T, multimaterial

- *dinti cu carbura tungsten*
- *ideala pentru produse ranforsate cu fibra de sticla, lemn dur, BCA 5.0 - 80 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



Ref. BOSCH: T341HM

	TPI	Lungime taiere	Dimensiuni	Ambalare	
02895 00001	4,2 mm	100 mm	132 x 7,8 x 1,9 mm	1	**79,05**

DT 1

Panza diamantata pentru fierastrau vertical, prindere T, pentru sticla si placi ceramice

- *dantura diamantata grosiera*
- *ideala pentru CRP/GRP, marmura, placi ceramice 5,0-20 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
02900 00001	DIAMANT	75 mm	100 x 9 x 1,3 mm	1	309,58

DT 2

Panza diamantata pentru fierastrau vertical, prindere T, pentru sticla si placi ceramice

- *dantura diamantata fina*
- *ideala pentru CRP/GRP, marmura, placi ceramice 5,0-20 mm*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
02905 00001	DIAMANT	75 mm	100 x 9 x 1,3 mm	1	309,58

SET 2000

Set 5 panze pentru fierastrau vertical, prindere T, pentru lemn si metal

- *setul include 3 panze pentru lemn si 2 pentru metal*
- *componenta: HC 12, HG 13, HGS 14, MG 11, MG 12*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



	Ambalare	
02860 00005	1	37,14

Set 10 panze pentru fierastrau vertical, prindere T, pentru lemn

- *componenta: 4 x HGS 14, 2 x HC 12, 2 x HG 13, 1 x HGS 24, 1 x HC 12 R*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



	Ambalare	
02966 00010	1	46,38

Set 10 panze pentru fierastrau vertical, prindere T, pentru metal

- *componenta: 3 x MG 11, 3 x MG 12, 1 x K14, 1 x K 24, 2 x MG 1014 BI*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



	Ambalare	
02967 00010	1	59,02

Set 10 panze pentru fierastrau vertical, prindere T, pentru lemn si metal

- *componenta: 3 x HGS 14, 3 x HW 12, 2 x HGS 24, 2 x MG 11*
- *fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer*



	Ambalare	
02968 00010	1	43,30

02991 00000

Expozitor panze pentru fierastrau vertical, prindere T, pentru lemn si plastic

• fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer



Articol	TPI	Lungime taiere	Dimensiuni	Ambalare	
5 x HC 12	2,5 mm / 10 tpi	75 mm	100 x 7,8 x 1,45 mm	5	**3423,14**
5 x HC 12 R	2,5 mm / 10 tpi	75 mm	100 x 7,8 x 1,45 mm	5	
5 x HC 14	4,0 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,45 mm	5	
5 x HC 14 D	4,0 mm / 6,35 tpi	75 mm	100 x 4,7 x 1,72 mm	5	
5 x HC 12 K	1,35 mm / 19 tpi	50 mm	76,5 x 4,7 x 1,25 mm	5	
5 x HC 13 Bi	3,0 mm / 8,5 tpi	75 mm	100 x 7,8 x 1,27 mm	5	
5 x HC 123	2,5 mm / 10 tpi	91 mm	117 x 10 x 1,35 mm	5	
5 x HC 19 R Bi	1,9 mm / 13 tpi	50 mm	80 x 7,9 x 1,27 mm	5	
5 x HC 32	2,5 mm / 10 tpi	105 mm	132 x 7,8 x 1,45 mm	5	
5 x HC 34	4,0 mm / 6.35 tpi	105 mm	132 x 7,8 x 1,45 mm	5	
5 x HGS 14	4,0 mm / 6.35 tpi	75 mm	100 x 7,8 x 1,27 mm	5	
5 x HGS 24	4,0 mm / 6.35 tpi	75 mm	100 x 6,5 x 1,27 mm	5	
5 x HGS 34	4,0 mm / 6.35 tpi	105 mm	132 x 7,8 x 1,27 mm	5	
5 x HGS 54	4,0 mm / 6.35 tpi	155 mm	180 x 7,8 x 1,27 mm	5	
5 x set 10 panze				10	

02992 00000

Expozitor panze pentru fierastrau vertical, prindere T, pentru metal

• fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer



Articol	TPI	Lungime taiere	Dimensiuni	Ambalare	
5 x MG 11	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	**3477,85**
5 x MG 11 Bi	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	
5 x MG 12	2,0 mm / 13 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	
5 x MG 12 Bi	2,0 mm / 13 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	
5 x MG 21	1,2 mm / 21 tpi	55 mm	76,5 x 6,4 x 1,0 mm	5	
5 x MG 107	0,7 mm / 36 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	
5 x MG 1014 Bi	1,8-2,5 mm/ 0-14 tpi	75 mm	100 x 9,8 x 1,0 mm	5	
5 x MG 31 Bi	1,0 mm / 25 tpi	105 mm	132 x 9,8 x 1,0 mm	5	
5 x MG 32 Bi	2,0 mm / 13 tpi	105 mm	132 x 9,8 x 1,0 mm	5	
5 x MG 51 Bi	1,0 mm / 25 tpi	155 mm	180 x 9,8 x 1,0 mm	5	
5 x K 14	3,0 mm / 8.5 tpi	75 mm	100 x 7,8 x 1,0 mm	5	
5 x K 14 Bi	3,0 mm / 8.5 tpi	75 mm	100 x 7,8 x 1,0 mm	5	
5 x K 24	3,0 mm / 8.5 tpi	75 mm	100 x 6,5 x 1,0 mm	5	
5 x HM 11	1,1 mm / 20 tpi	50 mm	76,5 x 8,0 x 1,0 mm	5	
5 x set 10 panze				10	

02993 00000

Expozitor panze pentru fierastrau vertical, prindere T, pentru metal si lemn

• fierastraie: AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer



Articol	TPI	Lungime taiere	Dimensiuni	Ambalare	
5 x HC 12	2,5 mm / 10 tpi	75 mm	100 x 7,8 x 1,45 mm	5	**2942,51**
5 x HC 12 R	2,5 mm / 10 tpi	75 mm	100 x 7,8 x 1,45 mm	5	
5 x HC 14	4,0 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,45 mm	5	
5 x HC 123	2,5 mm / 10 tpi	91 mm	117 x 10 x 1,35 mm	5	
5 x HC 19 R Bi	1,9 mm / 13 tpi	50 mm	80 x 7,9 x 1,27 mm	5	
5 x HC 32	2,5 mm / 10 tpi	105 mm	132 x 7,8 x 1,45 mm	5	
5 x HGS 14	4,0 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,27 mm	5	
5 x HGS 24	4,0 mm / 6,35 tpi	75 mm	100 x 6,5 x 1,27 mm	5	
5 x HGS 34	4,0 mm / 6,35 tpi	105 mm	132 x 7,8 x 1,27 mm	5	
5 x MG 11	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	
5 x MG 11 Bi	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	
5 x MG 12	2,0 mm / 13 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	
5 x MG 1014 Bi	1,8-2,5 / 10-14 tpi	75 mm	100 x 9,8 x 1,0 mm	5	
5 x K 14	3,0 mm / 8.5 tpi	75 mm	100 x 7,8 x 1,0 mm	5	
5 x SET 2000				5	

UHC 12

Panza HCS/CV pentru fierastrau vertical, prindere U, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curate*
- *ideala pentru toate tipurile de lemn, plastic 3,0-30 mm*
- *fierastraie: Black & Decker, Skil, Ryobi*



Ref. B&D A5035/5041

	TPI	Lungime taiere	Dimensiuni	Ambalare	
04110 00005	2,5 mm / 10 tpi	75 mm	100 x 7,8 x 1,27 mm	5	**34,98**

UHC 12 K

Panza HCS/CV pentru fierastrau vertical, prindere U, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala, dinti conici*
- *taieri curbe curate*
- *ideala pentru lemn moale, PAL, PAL melaminat 1,5-15 mm*
- *fierastraie: Black & Decker, Skil, Ryobi*



Ref. B&D A5248

	TPI	Lungime taiere	Dimensiuni	Ambalare	
04113 00005	1,35 mm / 19 tpi	50 mm	69,5 x 6,3 x 1,25 mm	5	**31,13**

UHC 12 R

Panza HCS/CV pentru fierastrau vertical, prindere U, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala, ascutire in revers*
- *taieri curate*
- *ideala pentru toate tipurile de lemn, plastic 3,0-30 mm*
- *fierastraie: Black & Decker, Skil, Ryobi*

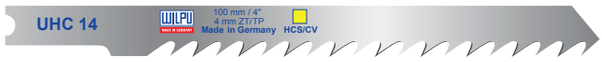


	TPI	Lungime taiere	Dimensiuni	Ambalare	
04114 00005	2,5 mm / 10 tpi	75 mm	100 x 7,8 x 1,27 mm	5	**34,98**

UHC 14

Panza HCS/CV pentru fierastrau vertical, prindere U, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curate*
- *ideala pentru toate tipurile de lemn, plastic 10-45 mm*
- *fierastraie: Black & Decker, Skil, Ryobi*



Ref. B&D A5037/5036

	TPI	Lungime taiere	Dimensiuni	Ambalare	
04170 00005	4 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,27 mm	5	**34,98**

UHG 13

Panza HCS/CV pentru fierastrau vertical, prindere U, pentru lemn

- *dinti ascutiti si ceaprazuiti din lateral*
- *ideala pentru lemn moale, plastic 4,0-50 mm*
- *fierastraie: Black & Decker, Skil, Ryobi*

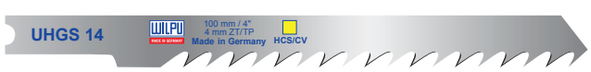


	TPI	Lungime taiere	Dimensiuni	Ambalare	
04280 00005	3 mm / 8,5 tpi	75 mm	100 x 7,8 x 1,0 mm	5	**19,88**

UHGS 14

Panza HCS/CV pentru fierastrau vertical, prindere U, pentru lemn

- *dinti ascutiti in diagonala si ceaprazuiti din lateral*
- *taiere rapida*
- *ideala pentru toate tipurile de lemn 5,0-50 mm*
- *fierastraie: Black & Decker, Skil, Ryobi*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
04360 00005	4 mm / 6,35 tpi	75 mm	100 x 7,8 x 1,27 mm	5	**25,89**



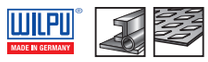


UMG 11

Panza HSS pentru fierastrau vertical, prindere U, pentru metal

- *dinti frezati, ceaprazuire ondulata*
- *ideala pentru tabla, otel si otel inoxidabil 1,2-2,0 mm*
- *fierastraie: Black & Decker, Skil, Ryobi*





Ref. B&D A5039

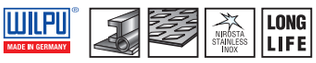
	TPI	Lungime taiere	Dimensiuni	Ambalare	
04550 00005	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	**24,66**

UMG 11 BI

Panza Bi-Metal pentru fierastrau vertical, prindere U, pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 1,2-2,0 mm*
- *fierastraie: Black & Decker, Skil, Ryobi*



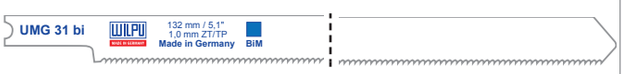


	TPI	Lungime taiere	Dimensiuni	Ambalare	
04551 00005	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	**31,90**

UMG 31 BI

Panza Bi-Metal pentru fierastrau vertical, prindere U, pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 1,0-3,0 mm, tevi, profile si material sandwich pana la 80 mm*
- *fierastraie: Black & Decker, Skil, Ryobi*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
04571 00005	1 mm / 25 tpi	105 mm	132 x 9,8 x 1,0 mm	5	**68,11**

UMG 12

Panza HSS pentru fierastrau vertical, prindere U, pentru metal

- *dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel, metale neferoase, aluminiu 2,5-6,0 mm*
- *fierastraie: Black & Decker, Skil, Ryobi*





Ref. B&D 5034

	TPI	Lungime taiere	Dimensiuni	Ambalare	
04650 00005	2 mm / 13 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	**24,66**

UMG 12 BI

Panza Bi-Metal pentru fierastrau vertical, prindere U, pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel, otel inoxidabil, metale neferoase, aluminiu 2,5-6,0 mm*
- *fierastraie: Black & Decker, Skil, Ryobi*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
04651 00005	2 mm / 13 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	**31,90**

UK 14 BI

Panza Bi-Metal pentru fierastrau vertical, prindere U, pentru metal

- *panza flexibila, dinti frezati, ceaprazuire din lateral*
- *ideala pentru otel, metale neferoase, aluminiu, plastic pana la 30 mm*
- *fierastraie: Black & Decker, Skil, Ryobi*



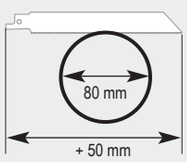


	TPI	Lungime taiere	Dimensiuni	Ambalare	
04761 00005	3 mm / 8,5 tpi	75 mm	100 x 7,8 x 1,0 mm	5	**45,92**

Ghid de selectare a lungimii panzei de fierastrau

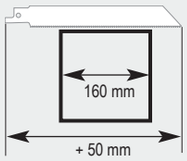
Mentineti intotdeauna 2-3 dinti de taiere in material.





Latimea materialului + 50 mm = lungimea panzei
exemplu:
Teva 80 mm + 50 mm = 130 mm
Alegeti o panza de fierastrau cu lungimea de 150 mm.





Latimea materialului + 50 mm = lungimea panzei
exemplu:
lungime material 160 mm + 50 mm = 210 mm
Alegeti o panza de fierastrau cu lungimea de 225 mm.



Durata de utilizare mai lunga prin utilizarea corecta a lichidelor de racire



Lichid de racipre special pentru otel inoxidabil: continut se ESP



Ulei de racire pentru taire



Ulei pe baze de terebentina



Apa



Utilizari ochelari de protectie

37

Panza HCS/CV pentru fierastrau vertical, prindere Fein, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curate*
- *ideala pentru toate tipurile de lemn, plastic 4,0-30 mm*
- *fierastraie: Fein AST(e) 636, 638; MOt 6-17-1*



Ref. Fein 63503037018

	TPI	Lungime taiere	Dimensiuni	Ambalare	
06130 00005	3 mm / 8,5 tpi	65 mm	90 x 6,0 x 1,27 mm	5	**34,21**

38

Panza HCS/CV pentru fierastrau vertical, prindere Fein, pentru lemn

- *panza cu sectiune trapezoidala, dinti ascutiti in diagonala*
- *taieri curate*
- *ideala pentru toate tipurile de lemn, plastic 5,0-40 mm*
- *fierastraie: Fein AST(e) 636, 638; MOt 6-17-1*



Ref. Fein 63503038016

	TPI	Lungime taiere	Dimensiuni	Ambalare	
06160 00005	4 mm / 6,35 tpi	65 mm	90 x 6,0 x 1,27 mm	5	**32,05**

35

Panza HSS pentru fierastrau vertical, prindere Fein, pentru metal

- *dinti frezati, ceaprazuire ondulata*
- *ideala pentru tabla subtire din otel si otel inoxidabil 1,2-2,0 mm*
- *fierastraie: Fein AST(e) 636, 638; MOt 6-17-1*



Ref. Fein 63503035011

	TPI	Lungime taiere	Dimensiuni	Ambalare	
06550 00005	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	**37,36**

35 BI

Panza Bi-Metal pentru fierastrau vertical, prindere Fein, pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 1,2-2,0 mm*
- *fierastraie: Fein AST(e) 636, 638; MOt 6-17-1*

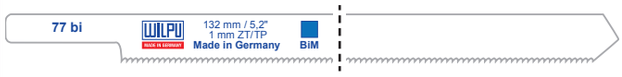


	TPI	Lungime taiere	Dimensiuni	Ambalare	
06551 00005	1,2 mm / 21 tpi	55 mm	76,5 x 7,8 x 1,0 mm	5	**44,23**

77 BI

Panza Bi-Metal pentru fierastrau vertical, prindere Fein, pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel 1,0-3,0 mm, tevi, profile si materiale sandwich pana la 80 mm*
- *fierastraie: Fein AST(e) 636, 638; MOt 6-17-1*



Ref. Fein 63503077014

	TPI	Lungime taiere	Dimensiuni	Ambalare	
06571 00005	1 mm / 25 tpi	105 mm	132 x 9,8 x 1,0 mm	5	**77,26**

36

Panza HSS pentru fierastrau vertical, prindere Fein, pentru metal

- *dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel, metale neferoase, aluminiu 2,5-6,0 mm*
- *fierastraie: Fein AST(e) 636, 638; MOt 6-17-1*



Ref. Fein 63503036014

	TPI	Lungime taiere	Dimensiuni	Ambalare	
06650 00005	2 mm / 13 tpi	55 mm	76,5 x 7,4 x 1,0 mm	5	**34,06**

36 BI

Panza Bi-Metal pentru fierastrau vertical, prindere Fein, pentru metal

- *panza flexibila dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel, otel inoxidabil, metale neferoase, aluminiu 2,5-6,0 mm*
- *fierastraie: Fein AST(e) 636, 638; MOt 6-17-1*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
06651 00005	2 mm / 13 tpi	55 mm	76,5 x 7,9 x 1,0 mm	5	**47,00**

39 BI

Panza Bi-Metal pentru fierastrau vertical, prindere Fein, pentru metal

- *panza flexibila, dinti frezati, ceaprazuire din lateral*
- *ideala pentru otel, metale neferoase, aluminiu, plastic 3,0-30 mm*
- *fierastraie: Fein AST(e) 636, 638; MOt 6-17-1*



Ref. Fein 63503039010

Ref. Fein 63503088011

	TPI	Lungime taiere	Dimensiuni	Ambalare	
06761 00005	3 mm / 8,5 tpi	75 mm	100 x 7,8 x 1,0 mm	5	**47,31**

Panze pentru fierastraie verticale antiex

- *pentru otel si metale neferoase*
- *fierastraie: Fein AStx(e) 649; MOt 6-18-1; Spitznas*





Articol		Material	TPI	Dimensiune	Ambalare	
66	**08066 00000**	HSS	1,6 mm / 16 tpi	200 x 25 x 1,5 mm	1	**43,61**
63	**08063 00000**	HSS	1,6 mm / 16 tpi	300 x 25 x 1,5 mm	1	**57,48**
64/1	**08164 00000**	HSS	1,6 mm / 16 tpi	400 x 25 x 1,5 mm	1	**117,58**
72/1	**08172 00000**	HSS	1,8 mm / 14 tpi	500 x 25 x 1,5 mm	1	**124,05**
72/2	**08272 00000**	HSS	1,8 mm / 14 tpi	500 x 25 x 2,0 mm	1	**133,45**
69	**08069 00000**	HSS	1,8 mm / 14 tpi	530 x 28 x 1,5 mm	1	**113,42**
73	**08073 00000**	HSS	1,8 mm / 14 tpi	600 x 28 x 2,0 mm	1	**154,10**

ESP

Pasta pentru taiere otel inoxidabil

- *cantitate in tub: 60 ml*

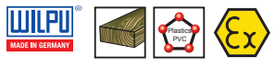


	Volum	Ambalare	
00500 00000	60 ml	1	**137,92**

Panze pentru fierastraie verticale antiex

- *pentru lemn si plastic*
- *fierastraie: Fein AStx(e) 649; MOt 6-18-1; Spitznas*

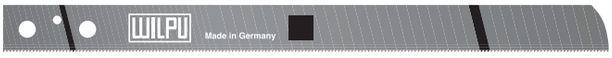


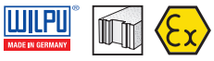


Articol		Material	TPI	Dimensiune	Ambalare	
81	**08081 00000**	HSS	4,2 mm / 6 tpi	700 x 28 x 2,0 mm	1	**194,32**

Panze pentru fierastraie verticale antiex

- *pentru BCA*
- *fierastraie: Fein AStx(e) 649; MOt 6-18-1; Spitznas*





Articol		Material	TPI	Dimensiune	Ambalare	
40	**08040 00000**	HSS	6,35 mm / 4 tpi	530 x 25 x 1,5 mm	1	**96,62**

Lemn Metal Universal Special

pentru fierastraie orizontale: **AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer**

Lista de referinta

WILPU	AEG	BOSCH	DEWALT	LENOX	MAKITA	METABO	MILWAUKEE
3020/150	318127	S811H	DW4806	–	P05000	–	–
3021/150	323800	S644D	DW4802	656R	P47086	37470	48-00-1075
3021/225	–	–	DW4803	–	P47092	–	–
3021/300	323802	S1344D	DW4804	156R	P05016	31472	48-00-1079
3021/150 bi	354775	S611DF	–	656R	P05088	–	48-00-5035
3021/225 bi	354777	S1111DF	–	956R	–	–	48-00-5036
3021/300 bi	354778	S1411DF	–	156R	–	–	48-00-5037
3022/150	323801	S744D	–	676RC	P05022	–	48-00-1076
3023/150	–	–	–	–	P47101	–	–
3023/240	–	S2345X	–	–	–	–	–
3025/150	354780	S628D	DW4851	–	–	–	48-00-5052
3025/300	–	–	–	–	–	–	–
3029/240	323803	S1531L	–	–	P47117	31488	48-00-1077
3019/150	–	–	–	–	P04999	–	–
3019/225	–	–	–	–	–	–	–
3019/225 PC	–	–	–	–	–	–	–
3019/150 bi	–	–	–	606R	–	–	–
3030/225	–	S1111K	–	–	–	–	–
3030/300	–	S1617K	–	–	–	–	–
3035/240	323804	S1542K	–	–	P47123	31490	48-00-1078
3027/230	–	–	–	–	–	–	–
3028/230	–	–	–	–	–	–	–
46C/150	354779	–	–	634R	–	–	–
46C/210	–	S1111DF	–	–	–	–	–

Lista de referinta

WILPU	AEG	BOSCH	DEWALT	LENOX	MAKITA	METABO	MILWAUKEE
1014 C/150	–	S922VF	DW4845	650R	P47014	31492	48-00-5081
1014 C/200	361224	–	DW4846	850R	P47020	–	48-00-5083
1014 C/225	373288	S1122VF	–	–	–	31495	–
1014 C/280	–	S1222VF	–	110R	–	31407	–
1014 C/210 RS	–	–	–	–	–	–	–
1014 CD/150	–	S925VF	DW4866	650R	P47189	–	–
1014 CD/200	–	S1025VF	DW4868	850R	P49529	31991	–
1014 CD/225	–	S1125VF	–	–	–	–	–
810 C/150	354782	–	–	–	–	–	48-00-5091
810 C/225	354783	–	–	–	P47070	–	48-00-5093
810 F/150	–	–	–	–	P47064	–	–
58 C/150	354776	S611VF	–	656R	P47139	31984	48-00-5031
58 C/225	–	S1111VF	–	956R	P47145	31986	–
58 C/300	–	–	–	–	–	–	–

pentru fierastraie orizontale: **AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer**

Lista de referinta

WILPU	AEG	BOSCH	DEWALT	LENOX	MAKITA	METABO	MILWAUKEE
3007/150	318128		–	–	P04955	–	48-00-5185
3015/100	354795	S522AF	DW4812	424R	P04896	–	48-00-5186
3015/150	354796	S922AF	DW4813	624R	P04905	–	–
3015/200	–	S1122AF	–	824R	P04949	–	–
3014/100	354791	S522EF	DW4810	418R	P04874	–	48-00-5183
3014/150	354792	S922EF	DW4811	618R	P04880	31454	48-00-5184
3014/200	354793	S1122EF	DW4821	818R	P04933	31493	–
3014/250	354794	–	–	118R	–	–	48-00-5188
3014/150 PC	–	–	–	–	–	–	–
3014/225 PC	–	–	–	–	–	–	–
3017/90	354787	S422BF	–	318RC	P04977	31990	48-00-5162
3013/100	354788	S522BF	DW4807	414R	–	–	48-00-5181
3013/150	354789	S922BF	DW4808	614R	P04911	31491	48-00-5182
3013/200	361345	–	DW4809	814R	P04927	31494	–
3013/250	354790	S1122BF	DW4838	–	–	–	48-00-5187
3018/150	318127	S922HF	DW4806	610R	P46997	–	48-00-5092
3018/200	–	S1122HF	–	810R	P47008	31932	–
3018/280	–	–	–	–	P04983	–	–
3018/210 RS	–	–	–	810RPC	–	–	–
3016/150	–	–	–	–	–	–	–
3016/225	–	S 1234 XF	–	–	–	–	–
3016/280	–	–	–	–	–	–	–

Lista de referinta

WILPU	AEG	BOSCH	DEWALT	LENOX	MAKITA	METABO	MILWAUKEE
3050/150	373247	S920CF	–	–	P46969	31992	48-00-5700
3050/225	–	S1120CF	–	960R	P46975	31993	48-00-5705
3050/300	–	–	–	–	P46981	–	48-00-5710
3055/150	373243	S610DF	DW4862	6066R	P47036	31925	48-00-5021
3055/225	373244	S1110DF	DW4863	966R	P47042	31926	48-00-5026
3055/300	–	–	DW4860	106R	P47058	–	48-00-5027
3056/150	–	S936BEF	DW4864	6114R	–	–	48-00-5782
3056/225	–	S1136BEF	DW4865	9114R	–	–	48-00-5787
3056/300	–	–	DW4870	12114R	–	–	48-00-5789
3057/150	–	–	–	6118R	–	–	48-00-5784
3057/225	–	–	–	9118R	–	–	48-00-5788
3057/300	–	–	–	12118R	–	–	48-00-5789
3058/225	–	–	–	–	–	–	48-00-5026
3058/300	–	–	–	–	–	–	48-00-5027

pentru fierastraie orizontale: **AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer**

Lista de referinta

WILPU	AEG	BOSCH	DEWALT	LENOX	MAKITA	METABO	MILWAUKEE
3040/150	323814	S641HM	–	6565RCT	P05044	31137	–
3040/300	–	–	–	–	P05050	–	–
3041/225	323815	S1141HM	–	–	P47151	31146	48-00-1080
3041/300	–	S1241HM	–	–	P47167	31819	–
3041/400	–	S2041HM	–	–	P05066	–	–
3042/115	–	S518EHM	–	–	–	31817	–
3043/235	–	S1543HM	–	–	–	–	–
3043/300	–	S1243HM	–	–	P46648	–	–
3043/400	–	–	–	–	–	–	–
3043/450	–	S2243HM	–	–	P46654	–	–
3044/235	–	–	–	–	–	–	–
3044/300	–	–	–	–	–	–	–
3044/400	–	–	–	–	–	–	–
D12/150	–	–	DW4844	600RG	–	–	48-00-1420
D12/200	–	–	DW4843	800RG	P47173	–	48-00-1430
D12/230	373386	S1130Riff	–	100RG	–	31818	–
DT 200	–	–	–	800RDG	–	–	–
INOX 300	373027	S1211K	–	–	–	–	48-00-1082
INOX 400	373028	–	–	–	–	–	48-00-1083
RWM 225	–	–	–	–	P80438	–	48-00-1084
RWM 300	–	–	–	–	P80444	–	48-00-1084
RWM 450	–	–	–	–	–	–	–

Lista de referinta

WILPU	AEG	BOSCH	DEWALT	LENOX	MAKITA	METABO	MILWAUKEE
006/150	–	–	–	–	P45680	–	–
006/200	–	–	–	–	P45696	–	–
007/150	–	–	–	–	P45705	–	–
007/200	–	–	–	–	P45711	–	–
007/280	–	–	–	–	P45727	–	–
007D/200	–	–	–	–	–	–	–
007DS/240	–	–	–	–	–	–	–

3020/150

Panza HCS/CV pentru fierastrau sabie, pentru lemn

- *dinti frezati si ceaprazuiti din lateral*
- *ideala pentru toate tipurile de lemn 3,0-60 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



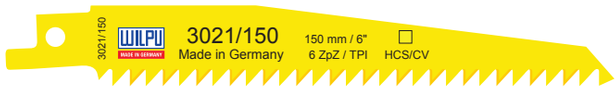


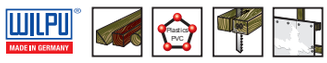
	TPI	Lungime taiere	Dimensiuni	Ambalare	
12115 00005	2,5 mm / 10 tpi	130 mm	150 x 19 x 1,05 mm	5	54,40

3021/150

Panza HCS/CV pentru fierastrau sabie, pentru lemn

- *dinti frezati si ceaprazuiti din lateral, ascutire in diagonala*
- *ideala pentru toate tipurile de lemn, plastic, rigips 6,0-100 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





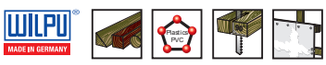
	TPI	Lungime taiere	Dimensiuni	Ambalare	
12215 00005	4,2 mm / 6 tpi	130 mm	150 x 19 x 1,27 mm	5	62,10
12215 00020	4,2 mm / 6 tpi	130 mm	150 x 19 x 1,27 mm	20	246,71
12215 00099	4,2 mm / 6 tpi	130 mm	150 x 19 x 1,27 mm	100	1147,42

3021/225

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti frezati si ceaprazuiti din lateral*
- *ideala pentru toate tipurile de lemn, plastic, rigips 6,0-100 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





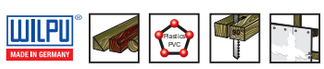
	TPI	Lungime taiere	Dimensiuni	Ambalare	
12222 00005	4,2 mm / 6 tpi	205 mm	225 x 19 x 1,27 mm	5	79,05

3021/300

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti frezati si ceaprazuiti din lateral*
- *ideala pentru toate tipurile de lemn, plastic, rigips 6,0-100 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



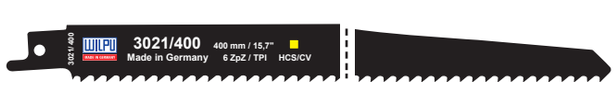


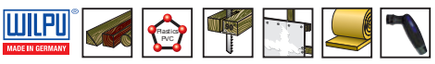
	TPI	Lungime taiere	Dimensiuni	Ambalare	
12230 00005	4,2 mm / 6 tpi	280 mm	300 x 19 x 1,27 mm	5	94,92

3021/400

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti frezati si ceaprazuiti din lateral*
- *ideala pentru toate tipurile de lemn, plastic, rigips 6,0-100 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



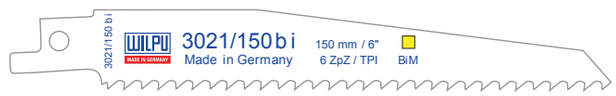


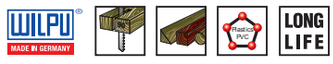
	TPI	Lungime taiere	Dimensiuni	Ambalare	
12240 00005	4,2 mm / 6 tpi	380 mm	400 x 19 x 1,27 mm	5	133,76

3021/150 BI

Panza Bi-Metal pentru fierastrau sabie pentru lemn

- *dinti frezati si ceaprazuiti din lateral, flexibila pentru taieri rapide si drepte*
- *ideala pentru toate tipurile de lemn, plastic*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
12265 00005	4,2 mm / 6 tpi	130 mm	150 x 19 x 1,27 mm	5	91,84

3021/300 BI

Panza Bi-Metal pentru fierastrau sabie pentru lemn

- *dinti frezati si ceaprazuiti din lateral, flexibila pentru taieri rapide si drepte*
- *ideala pentru toate tipurile de lemn, plastic*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



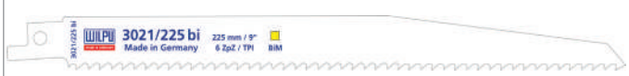


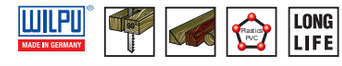
	TPI	Lungime taiere	Dimensiuni	Ambalare	
12280 00005	4,2 mm / 6 tpi	280 mm	300 x 19 x 1,27 mm	5	162,73

3021/225 BI

Panza Bi-Metal pentru fierastrau sabie pentru lemn

- *dinti frezati si ceaprazuiti din lateral, flexibila pentru taieri rapide si drepte*
- *ideala pentru toate tipurile de lemn, plastic*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



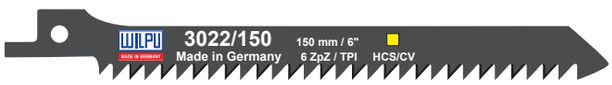


	TPI	Lungime taiere	Dimensiuni	Ambalare	
12272 00005	4,2 mm / 6 tpi	205 mm	225 x 19 x 1,27 mm	5	114,96
12272 00020	4,2 mm / 6 tpi	205 mm	225 x 19 x 1,27 mm	20	437,49

3022/150

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti ascutit in diagonala, ceaparzuiti din lateral*
- *ideala pentru taieri curbe in toate tipurile de lemn, plastic pana la 100 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
12315 00005	4,2 mm / 6 tpi	130 mm	150 x 12 x 1,27 mm	5	72,27

3023/150

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti triplu ascutiti, cu rectificare conica*
- *ideala pentru taieri curate in toate tipurile de lemn, plastic pana la 100 mm, plexiglas*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
12400 00005	4,2 mm / 6 tpi	130 mm	150 x 19 x 1,8 mm	5	91,23

3023/240

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti triplu ascutiti*
- *ideala pentru taieri curate in toate tipurile de lemn, plastic pana la 190 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
12422 00005	4,2 mm / 6 tpi	220 mm	240 x 19 x 1,27 mm	5	101,86

3025/150

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti frezati si ceaprazuiti din lateral*
- *ideala pentru rigips si lemn pana la 100 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
12415 00005	4,2 mm / 6 tpi	130 mm	150 x 19 x 1,05 mm	5	50,85

3025/300

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti frezati si ceaprazuiti din lateral*
- *ideala pentru rigips si lemn pana la 100 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*

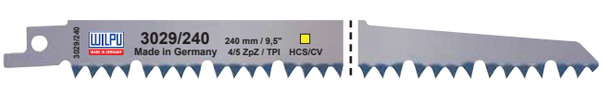


	TPI	Lungime taiere	Dimensiuni	Ambalare	
12430 00005	4,2 mm / 6 tpi	280 mm	300 x 19 x 1,05 mm	5	81,52

3029/240

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti ceaprazuiti din lateral, ascutire in diagonala, dinti tratati prin inductie*
- *ideala pentru lemn verde pana la 190 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
12524 00005	6,35/5 mm / 4/5 tpi	220 mm	240 x 19 x 1,27 mm	5	96,93
12524 00020	6,35/5 mm / 4/5 tpi	220 mm	240 x 19 x 1,27 mm	20	364,60
12524 00099	6,35/5 mm / 4/5 tpi	220 mm	240 x 19 x 1,27 mm	100	1657,33

3019/150

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti frezati si ceaprazuiti din lateral, flexibila pentru taieri rapide si drepte*
- *ideala pentru toate tipurile de lemn, plastic*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
12615 00005	6,35 mm / 4 tpi	130 mm	150 x 19 x 1,05 mm	5	57,02
12615 00020	6,35 mm / 4 tpi	130 mm	150 x 19 x 1,05 mm	20	204,80

3019/225

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti ascutiti si ceaprazuiti din lateral*
- *ideala pentru toate tipurile de lemn pana la 100 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*

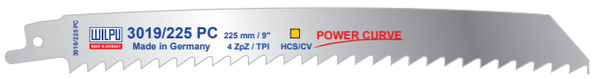


	TPI	Lungime taiere	Dimensiuni	Ambalare	
12622 00005	6,35 mm / 4 tpi	205 mm	225 x 19 x 1,05 mm	5	72,27

3019/225 PC

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *panza curbata, dinti ascutiti si ceaprazuiti din lateral*
- *ideala pentru toate tipurile de lemn pana la 175 mm*
- *panza curbata pentru taieri rapide si durata de viata prelungita*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
12675 00005	6,35 mm / 4 tpi	205 mm	225 x 19 x 1,05 mm	5	**86,30**
12675 00020	6,35 mm / 4 tpi	205 mm	225 x 19 x 1,05 mm	20	**314,21**

3019/150 bi

Panza Bi-Metal pentru fierastrau sabie pentru lemn

- *panza flexibila, dinti frezati si ceaprazuiti din lateral*
- *ideala pentru toate tipurile de lemn pana la 100 mm*
- *panza flexibila, durata de viata prelungita*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*

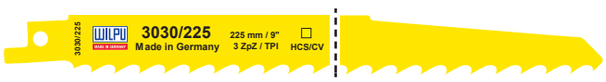


	TPI	Lungime taiere	Dimensiuni	Ambalare	
12665 00005	6,35 mm / 4 tpi	130 mm	150 x 19 x 0,9 mm	5	**82,75**

3030/225

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti frezati, ceaprazuiti din lateral, ascutire in diagonala*
- *ideala pentru toate tipurile de lemn pana la 175 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
12722 00005	8,5 mm / 3 tpi	205 mm	225 x 19 x 1,27 mm	5	**83,06**

3030/300

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti frezati, ceaprazuiti din lateral, ascutire in diagonala*
- *ideala pentru toate tipurile de lemn pana la 175 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*

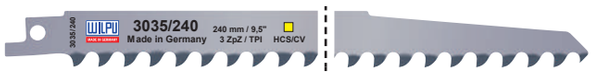


	TPI	Lungime taiere	Dimensiuni	Ambalare	
12730 00005	8,5 mm / 3 tpi	280 mm	300 x 19 x 1,27 mm	5	**107,25**

3035/240

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *dinti ceaprazuiti din lateral, ascutire in diagonala, dinti caliti si tratati prin inductie*
- *dinti foarte mari pentru taieri agresive si rapide in lemn ud de pana la 190 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
12774 00005	8,5 mm / 3 tpi	220 mm	240 x 19 x 1,27 mm	5	**101,24**

46 C/150

Panza Bi-Metal pentru fierastrau sabie pentru lemn

- *dinti frezati si ceaprazuiti din lateral, dantura variabila*
- *dinti foarte mari pentru taieri drepe in toate tipurile de lemn de pana la 100 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
13815 00005	6,35/4,2 mm / 4,2/ 6 tpi	130 mm	150 x 19 x 1,27 mm	5	**97,39**

46 C/210

Panza Bi-Metal pentru fierastrau sabie pentru lemn

- *dinti frezati si ceaprazuiti din lateral, dantura variabila*
- *dinti foarte mari pentru taieri drepe in toate tipurile de lemn de pana la 160 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
13821 00005	6,35/4,2 mm / 4,2/ 6 tpi	190 mm	210 x 19 x 1,27 mm	5	**130,98**

3027/230

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *rectificata, dinti triplu ascutiti, ceaprazuiti din lateral, caliti, ascutire in diagonala*
- *extrem de ascutite pentru taieri curate in lemn uscat*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*
- *potrivite pentru scule electrice cu acumulator sau manere manuale*



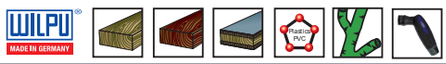
	TPI	Lungime taiere	Dimensiuni	Ambalare	
12830 00003	2 mm / 13 tpi	195 mm	230 x 35 x 0,6 mm	3	**122,05**

3028/230

Panza HCS/CV pentru fierastrau sabie pentru lemn

- *rectificata, dinti triplu ascutiti, ceaprazuiti din lateral, caliti, ascutire in diagonala*
- *extrem de ascutite pentru taieri curate in lemn uscat si ud*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*
- *potrivite pentru scule electrice cu acumulator sau manere manuale*





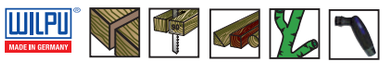
	TPI	Lungime taiere	Dimensiuni	Ambalare	
12920 00003	3 mm / 8,5 tpi	195 mm	230 x 35 x 0,6 mm	3	**122,05**

3026/275

Panza HCS/CV pentru fierastrau sabie pentru gradinarit

- *rectificata, dinti triplu ascutiti, ceaprazuiti din lateral, caliti, ascutire in diagonala*
- *foarte groasa, cu lama speciala pentru taierea precisa a arbustilor si a ramurilor de copaci (> 5,0 mm), precum si taieturi rapide si drepte in toate tipurile de lemn uscat si lemn verde*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*
- *potrivite pentru manere manuale*



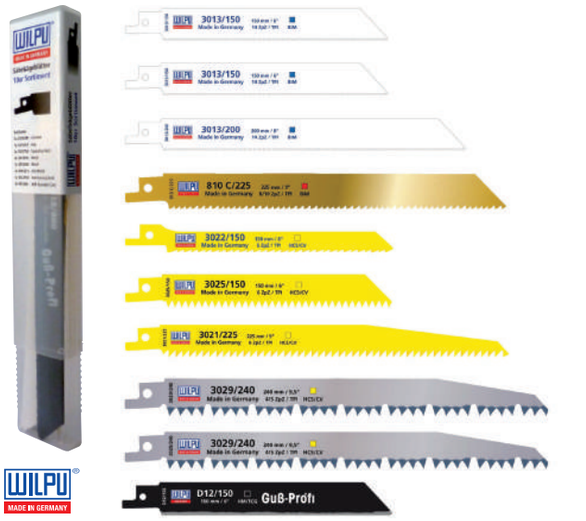


	TPI	Lungime taiere	Dimensiuni	Ambalare	
12820 00002	4,2 mm / 6,0 tpi	245 mm	275 x 34 x 1,6 mm	3	**142,70**

12955 00010

Set 10 panze pentru fierastrau sabie

- *setul include panze pentru plastic, panze pentru taieri curbe in lemn, lemn cu cuie,*
- *fonta, fibra de sticla si fibra de carbon*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



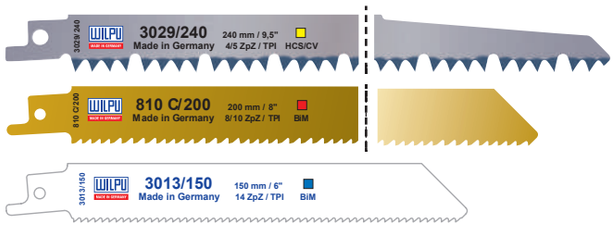


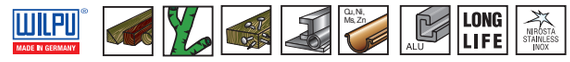
Articol	TPI	Lungime taiere	Dimensiuni	Ambalare	
2x 3029-240	4-5 tpi	220 mm	240 x 19 x 1,27 mm	10	**175,98**
1x 3021-225	6 tpi	205 mm	225 x 19 x 1,27 mm		
1x 3025-150	6 tpi	130 mm	150 x 19 x 1,27 mm		
1x 3022-150	6 tpi	130 mm	150 x 12 x 1,27 mm		
1x 3013-200	14 tpi	180 mm	200 x 19 x 0,9 mm		
1x 810C-225	8-10 tpi	205 mm	225 x 19 x 0,9 mm		
2x 3013-150	14 tpi	130 mm	150 x 19 x 0,9 mm		
1x D12-200	Granulat / grit	180 mm	200 x 19 x 1,05 mm		

12955 00003

Set 3 panze pentru fierastrau sabie

- *setul include: 3029/240, 810C/200, 3013/150*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



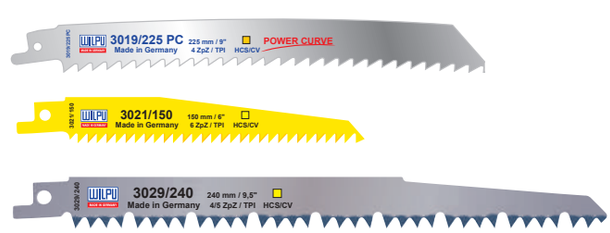


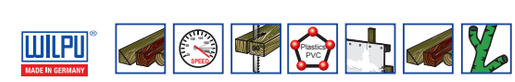
Articol	TPI	Lungime taiere	Dimensiuni	Ambalare	
3029/240	6,35/5 mm / 4/5 tpi	220 mm	240 x 19 x 1,27 mm	3	**65,18**
810C/200	3,2/2,5 mm / 8/10 tpi	180 mm	200 x 19 x 0,9 mm		
3013/150	1,8 mm / 14 tpi	130 mm	150 x 19 x 0,9 mm		

12957 00003

Set 3 panze pentru fierastrau sabie

- *setul include: 3019/225 PC, 3021/150, 3029/240*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





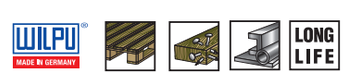
Articol	TPI	Lungime taiere	Dimensiuni	Ambalare	
3019/225PC	6,35 mm / 4 tpi	205 mm	225 x 19 x 1,05 mm	3	**51,78**
3021/150	4.2 mm / 6 tpi	130 mm	150 x 19 x 1,27 mm		
3029/240	6.35/5 mm / 4/5 tpi	220 mm	240 x 19 x 1,27 mm		

1014 C/150

Panza Bi-Metal pentru fierastrau sabie pentru paleti

- *dinti frezati si ceaprazuiti din lateral, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie, otel pana la 2,5 mm*
- *speciale pentru reparat paleti*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Ski, Stayer*





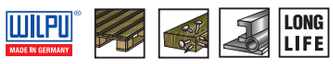
	TPI	Lungime taiere	Dimensiuni	Ambalare	
13515 00005	2,5/1,8 mm / 10/14 tpi	130 mm	150 x 19 x 0,9 mm	5	**89,84**
13515 00020	2,5/1,8 mm / 10/14 tpi	130 mm	150 x 19 x 0,9 mm	20	**309,58**
13515 00099	2,5/1,8 mm / 10/14 tpi	130 mm	150 x 19 x 0,9 mm	100	**1440,20**

1014 C/200

Panza Bi-Metal pentru fierastrau sabie pentru paleti

- *dinti frezati si ceaprazuiti din lateral, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie, otel pana la 2,5 mm*
- *speciale pentru reparat paleti*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





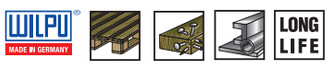
	TPI	Lungime taiere	Dimensiuni	Ambalare	
13520 00005	2,5/1,8 mm / 10/14 tpi	180 mm	200 x 19 x 0,9 mm	5	**103,25**
13520 00020	2,5/1,8 mm / 10/14 tpi	180 mm	200 x 19 x 0,9 mm	20	**371,38**

1014 C/225

Panza Bi-Metal pentru fierastrau sabie pentru paleti

- *dinti frezati si ceaprazuiti din lateral, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie, otel pana la 2,5 mm*
- *speciale pentru reparat paleti*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





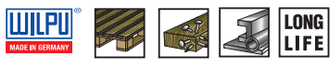
	TPI	Lungime taiere	Dimensiuni	Ambalare	
13522 00005	2,5/1,8 mm / 10/14 tpi	205 mm	225 x 19 x 0,9 mm	5	**120,04**

1014 C/280

Panza Bi-Metal pentru fierastrau sabie pentru paleti

- *dinti frezati si ceaprazuiti din lateral, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie, otel pana la 2,5 mm*
- *speciale pentru reparat paleti*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





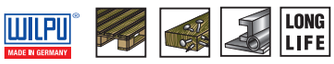
	TPI	Lungime taiere	Dimensiuni	Ambalare	
13528 00005	2,5/1,8 mm / 10/14 tpi	260 mm	280 x 19 x 0,9 mm	5	**152,87**

1014 C/210 RS

Panza Bi-Metal pentru fierastrau sabie pentru paleti

- *dinti frezati, ceaprazuire din lateral, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie, otel pana la 2,5 mm*
- *speciale pentru reparat paleti*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





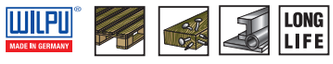
	TPI	Lungime taiere	Dimensiuni	Ambalare	
13521 00000	2,5/1,8 mm / 10/14 tpi	190 mm	210 x 19 x 0,9 mm	250	**3968,80**

1014 CD/150

Panza Bi-Metal pentru fierastrau sabie pentru paleti

- *dinti frezati, ceaprazuire ondulata, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie, otel pana la 2,5 mm*
- *speciale pentru reparat paleti*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





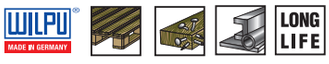
	TPI	Lungime taiere	Dimensiuni	Ambalare	
13565 00005	2,5/1,8 mm / 10/14 tpi	130 mm	150 x 19 x 1,27 mm	5	**104,79**

1014 CD/200

Panza Bi-Metal pentru fierastrau sabie pentru paleti

- *dinti frezati, ceaprazuire ondulata, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie, otel pana la 2,5 mm*
- *speciale pentru reparat paleti*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





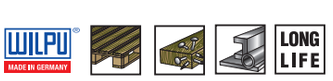
	TPI	Lungime taiere	Dimensiuni	Ambalare	
13570 00005	2,5/1,8 mm / 10/14 tpi	180 mm	225 x 19 x 1,27 mm	5	**129,21**

1014 CD/225

Panza Bi-Metal pentru fierastrau sabie pentru paleti

- *dinti frezati, ceaprazuire ondulata, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie, otel pana la 2,5 mm*
- *speciale pentru reparat paleti*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





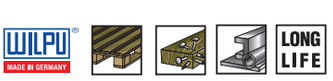
	TPI	Lungime taiere	Dimensiuni	Ambalare	
13572 00005	2,5/1,8 mm / 10/14 tpi	205 mm	300 x 19 x 1,27 mm	5	**150,09**

810 C/150

Panza Bi-Metal pentru fierastrau sabie pentru paleti

- *dinti frezati si ceaprazuiti din lateral, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie, otel pana la 3 mm*
- *speciale pentru reparat paleti*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
13615 00005	3,2/2,5 mm / 8/10 tpi	130 mm	150 x 19 x 0,9 mm	5	**85,99**

810 C/225

Panza Bi-Metal pentru fierastrau sabie pentru paleti

- *dinti frezati si ceaprazuiti din lateral, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie, otel pana la 3 mm*
- *speciale pentru reparat paleti*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
13622 00005	3,2/2,5 mm / 8/10 tpi	205 mm	225 x 19 x 0,9 mm	5	125,44

810 F

Panza Bi-Metal pentru fierastrau sabie pentru tamplarie

- *dinti frezati si ceaprazuiti din lateral, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie, otel pana la 3 mm*
- *speciale pentru tamplarie ferestre*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*

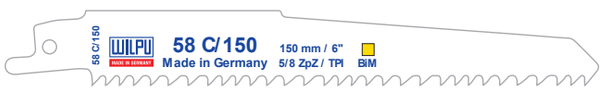


	TPI	Lungime taiere	Dimensiuni	Ambalare	
13650 00005	3,2/2,5 mm / 8/10 tpi	130 mm	150 x 19 x 1,27 mm	5	99,86

58 C/150

Panza Bi-Metal pentru fierastrau sabie pentru lemn si lemn cu cuie

- *dinti frezati si ceaprazuiti din lateral, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie pana la 80 mm*
- *taieri drepte*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
13765 00005	5/3,2 mm / 5/8 tpi	130 mm	150 x 19 x 1,27 mm	5	101,70

58 C/225

Panza Bi-Metal pentru fierastrau sabie pentru lemn si lemn cu cuie

- *dinti frezati si ceaprazuiti din lateral, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie pana la 80 mm*
- *taieri drepte*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita,Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
13772 00005	5/3,2 mm / 5/8 tpi	205 mm	225 x 19 x 1,27 mm	5	126,82

58 C/300

Panza Bi-Metal pentru fierastrau sabie pentru lemn si lemn cu cuie

- *dinti frezati si ceaprazuiti din lateral, dantura variabila*
- *ideala pentru toate tipurile de lemn si lemn cu cuie pana la 80 mm*
- *taieri drepte*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
13780 00005	5/3,2 mm / 5/8 tpi	280 mm	300 x 19 x 1,27 mm	5	162,73

3059/150

Panza Bi-Metal pentru fierastrau sabie pentru lemn, lemn cu cuie, metale neferoase

- *dinti frezati si ceaprazuiti, cu dantura inovativa 9/13 TWO-STAGE.*
- *durata de viata mai mare datorita disiparii mai bune a caldurii.*
- *recomandat pentru aplicatii in toate tipurile de metal si lemn cu metal*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14960 00005	2,8/1,9 mm / 9/13 tpi	130 mm	150 x 19 x 0,9 mm	5	86,30

3007/150

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dantura fina, ceaprazuire ondulata*
- *ideala pentru tabla mai subtire de 1,2 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14115 00005	0,7 mm / 32 tpi	130 mm	150 x 19 x 0,9 mm	5	78,13

3015/100

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaparzuire ondulata*
- *ideala pentru tabla din otel mai subtire de 1,2 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14210 00005	1,2 mm / 24 tpi	80 mm	100 x 19 x 0,9 mm	5	65,95

3015/150

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaparzuire ondulata*
- *ideala pentru tabla din otel mai subtire de 1,2 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
14215 00005	1,2 mm / 24 tpi	130 mm	150 x 19 x 0,9 mm	5	**81,52**

3015/200

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaparzuire ondulata*
- *ideala pentru tabla din otel mai subtire de 1,2 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
14220 00005	1,2 mm / 24 tpi	180 mm	200 x 19 x 0,9 mm	5	**102,32**

3017/90

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *dinti frezati, ceaparzuire ondulata*
- *ideala pentru taieri curbe in toate tipurile de metal*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
14450 00005	1,4 mm / 18 tpi	70 mm	90 x 9 x 0,9 mm	5	**68,88**

3014/100

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 1,5-2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
14410 00005	1,4 mm / 18 tpi	80 mm	100 x 19 x 0,9 mm	5	**65,95**

3014/150

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 1,5-2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
14415 00005	1,4 mm / 18 tpi	130 mm	150 x 19 x 0,9 mm	5	**74,74**
14415 00020	1,4 mm / 18 tpi	130 mm	150 x 19 x 0,9 mm	20	**269,21**
14415 00099	1,4 mm / 18 tpi	130 mm	150 x 19 x 0,9 mm	100	**1252,20**

3014/200

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 1,5-2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
14420 00005	1,4 mm / 18 tpi	180 mm	200 x 19 x 0,9 mm	5	**97,85**
14420 00020	1,4 mm / 18 tpi	180 mm	200 x 19 x 0,9 mm	20	**337,63**
14420 00099	1,4 mm / 18 tpi	180 mm	200 x 19 x 0,9 mm	100	**1561,48**

3014/250

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 1,5-2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
14425 00005	1,4 mm / 18 tpi	230 mm	250 x 19 x 0,9 mm	5	**122,05**
14425 00099	1,4 mm / 18 tpi	230 mm	250 x 19 x 0,9 mm	100	**2197,13**

3014/150 PC

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *dinti frezati, ascutire ondulata, curbata si flexibila*
- *ideala pentru taieri rapide in otel si otel inoxidabil 1,5-2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
14515 00005	1,4 mm / 18 tpi	130 mm	150 x 19 x 0,9 mm	5	**83,98**
14515 00020	1,4 mm / 18 tpi	130 mm	150 x 19 x 0,9 mm	20	**312,05**

3014/225 PC

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza curbata si flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru taieri rapide in otel si otel inoxidabil 1,5-2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14522 00005	1,4 mm / 18 tpi	205 mm	225 x 19 x 0,9 mm	5	**112,18**
14522 00020	1,4 mm / 18 tpi	205 mm	225 x 19 x 0,9 mm	20	**417,45**

3013/100

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 2,0-3,5 mm, metale neferoase*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14610 00005	1,8 mm / 14 tpi	80 mm	100 x 19 x 0,9 mm	5	**83,98**

3013/150

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 2,0-3,5 mm, metale neferoase*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14615 00005	1,8 mm / 14 tpi	130 mm	150 x 19 x 0,9 mm	5	**77,97**
14615 00020	1,8 mm / 14 tpi	130 mm	150 x 19 x 0,9 mm	20	**269,21**
14615 00099	1,8 mm / 14 tpi	130 mm	150 x 19 x 0,9 mm	100	**1252,20**

3013/200

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 2,0-3,5 mm, metale neferoase*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14620 00005	1,8 mm / 14 tpi	180 mm	200 x 19 x 0,9 mm	5	**97,85**
14620 00020	1,8 mm / 14 tpi	180 mm	200 x 19 x 0,9 mm	20	**337,63**
14620 00099	1,8 mm / 14 tpi	180 mm	200 x 19 x 0,9 mm	100	**1561,48**

3013/250

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 2,0-3,5 mm, metale neferoase*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14625 00005	1,8 mm / 14 tpi	230 mm	250 x 19 x 0,9 mm	5	**127,44**
14625 00099	1,8 mm / 14 tpi	230 mm	250 x 19 x 0,9 mm	100	**2197,13**

3013/150 PC

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 2,0-3,5 mm, metale neferoase*
- *panza curbata pentru taieri rapide si rezistenta indelungata*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14715 00005	1,8 mm / 14 tpi	130 mm	150 x 19 x 0,9 mm	5	**83,98**
14715 00020	1,8 mm / 14 tpi	130 mm	150 x 19 x 0,9 mm	20	**312,05**

3013/225 PC

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *dinti frezati, ascutire ondulata, flexibila*
- *ideala pentru otel si otel inoxidabil 2,0-3,5 mm, metale neferoase*
- *panza curbata pentru taieri rapide si rezistenta indelungata*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14722 00005	1,8 mm / 14 tpi	205 mm	225 x 19 x 0,9 mm	5	**112,18**
14722 00020	1,8 mm / 14 tpi	205 mm	225 x 19 x 0,9 mm	20	**417,45**

3018/150

Panza Bi-Metal pentru fierastrau sabie pentru metal

panza flexibila, dinti frezati, ceaprazuire ondulata
ideala pentru otel si otel inoxidabil 2,0-3,5 mm, metale neferoase
panza curbata pentru taieri rapide si rezistenta indelungata
fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14815 00005	2,5 mm / 10 tpi	130 mm	150 x 19 x 0,9 mm	5	**80,90**
14815 00020	2,5 mm / 10 tpi	130 mm	150 x 19 x 0,9 mm	20	**280,30**
14815 00099	2,5 mm / 10 tpi	130 mm	150 x 19 x 0,9 mm	100	**1303,21**

3018/200

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 2,0-3,5 mm, metale neferoase*
- *panza curbata pentru taieri rapide si rezistenta indelungata*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14820 00005	2,5 mm / 10 tpi	180 mm	200 x 19 x 0,9 mm	5	**100,93**
14820 00020	2,5 mm / 10 tpi	180 mm	200 x 19 x 0,9 mm	20	**363,21**
14820 00099	2,5 mm / 10 tpi	180 mm	200 x 19 x 0,9 mm	100	**1724,51**

3018/210 RS

Panza Bi-Metal pentru fierastrau sabie pentru paleti

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 3,0-5,0 mm, metale neferoase*
- *speciala pentru repararea paletilor*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14821 00000	2,5 mm / 10 tpi	190 mm	210 x 19 x 0,9 mm	250	**3880,66**

3016-225 Twin Cut

Panza Bi-Metal pentru fierastrau sabie pentru lemn cu cuie si metal

- *panza flexibila, dinti frezati, ceaprazuire din lateral, geometria dintilor Twin-Cut*
- *ideala pentru metal pana la 2,5 mm, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14322 00005	2,5/1,8 mm / 10/14 tpi	205 mm	225 x 19 x 0,9 mm	5	**120,81**
14322 00020	2,5/1,8 mm / 10/14 tpi	205 mm	225 x 19 x 0,9 mm	20	**434,71**
14322 00099	2,5/1,8 mm /10/14 tpi	205 mm	225 x 19 x 0,9 mm	100	**2021,31**

3056-150

Panza Bi-Metal pentru fierastrau sabie pentru lemn cu cuie si metal

- *dinti frezati, ceaprazuire din lateral, geometria dintilor Twin-Cut*
- *ideala pentru taieri rapide in metal pana la 2,5 mm, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
15915 00005	2,5/1,8 mm / 10/14 tpi	130 mm	150 x 25 x 0,9 mm	5	**94,77**
15915 00020	2,5/1,8 mm / 10/14 tpi	130 mm	150 x 25 x 0,9 mm	20	**341,17**
15915 00099	2,5/1,8 mm /10/14 tpi	130 mm	150 x 25 x 0,9 mm	100	**1762,42**

3018/280

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *panza flexibila, dinti frezati, ceaprazuire ondulata*
- *ideala pentru otel si otel inoxidabil 2,0-3,5 mm, metale neferoase*
- *panza curbata pentru taieri rapide si rezistenta indelungata*

fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14828 00005	2,5 mm / 10 tpi	260 mm	280 x 19 x 0,9 mm	5	**136,22**
14828 00099	2,5 mm / 10 tpi	260 mm	280 x 19 x 0,9 mm	100	**2371,11**

3016/150 Twin Cut

Panza Bi-Metal pentru fierastrau sabie pentru lemn cu cuie si metal

- *panza flexibila, dinti frezati, ceaprazuire din lateral, geometria dintilor Twin-Cut*
- *ideala pentru metal pana la 2,5 mm, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14315 00005	2,5/1,8 mm / 10/14 tpi	130 mm	150 x 19 x 0,9 mm	5	**89,99**
14315 00020	2,5/1,8 mm / 10/14 tpi	130 mm	150 x 19 x 0,9 mm	20	**313,74**
14315 00099	2,5/1,8 mm /10/14 tpi	130 mm	150 x 19 x 0,9 mm	100	**1441,28**

3016-280 Twin Cut

Panza Bi-Metal pentru fierastrau sabie pentru lemn cu cuie si metal

- *panza flexibila, dinti frezati, ceaprazuire din lateral, geometria dintilor Twin-Cut*
- *ideala pentru metal pana la 2,5 mm, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



	TPI	Lungime taiere	Dimensiuni	Ambalare	
14328 00005	52,5/1,8 mm /10/14 tpi	260 mm	280 x 19 x 0,9 mm	5	**153,48**

3056-225

Panza Bi-Metal pentru fierastrau sabie pentru lemn cu cuie si metal

- *dinti frezati, ceaprazuire din lateral, geometria dintilor Twin-Cut*
- *ideala pentru taieri rapide in metal pana la 2,5 mm, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



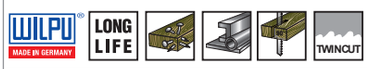
	TPI	Lungime taiere	Dimensiuni	Ambalare	
15922 00005	2,5/1,8 mm / 10/14 tpi	205 mm	225 x 25 x 0,9 mm	5	**124,67**
15922 00020	2,5/1,8 mm / 10/14 tpi	205 mm	225 x 25 x 0,9 mm	20	**448,89**
15922 00099	2,5/1,8 mm /10/14 tpi	205 mm	225 x 25 x 0,9 mm	100	**2066,46**

3056-300

Panza Bi-Metal pentru fierastrau sabie pentru lemn cu cuie si metal

- *dinti frezati, ceaprazuire din lateral, geometria dintilor Twin-Cut*
- *ideala pentru taieri rapide in metal pana la 2,5 mm, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
15930 00005	2,5/1,8 mm / 10/14 tpi	280 mm	300 x 25 x 0,9 mm	5	156,87
15930 00099	2,5/1,8 mm / 10/14 tpi	280 mm	300 x 25 x 0,9 mm	100	2830,02

3057-150

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *dinti frezati, ceaprazuire din lateral*
- *ideala pentru taieri rapide si drepte in metal pana la 1,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
15215 00005	1,4 mm / 18 tpi	130 mm	150 x 25 x 0,9 mm	5	94,62
15215 00020	1,4 mm / 18 tpi	130 mm	150 x 25 x 0,9 mm	20	341,17

3057-225

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *dinti frezati, ceaprazuire din lateral*
- *ideala pentru taieri rapide si drepte in metal pana la 1,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
15222 00005	1,4 mm / 18 tpi	205 mm	225 x 25 x 0,9 mm	5	130,06
15222 00020	1,4 mm / 18 tpi	205 mm	225 x 25 x 0,9 mm	20	448,89

3057-300

Panza Bi-Metal pentru fierastrau sabie pentru metal

- *dinti frezati, ceaprazuire din lateral*
- *ideala pentru taieri rapide si drepte in metal pana la 1,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



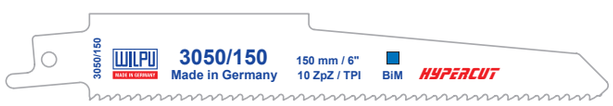


	TPI	Lungime taiere	Dimensiuni	Ambalare	
15230 00005	1,4 mm / 18 tpi	280 mm	300 x 25 x 0,9 mm	5	156,87
15230 00020	1,4 mm / 18 tpi	280 mm	300 x 25 x 0,9 mm	20	564,77

3050/150

Panza Bi-Metal pentru fierastrau sabie pentru demolari

- *dinti frezati, ceaprazuire din lateral*
- *panza robusta pentru taieri rapide si drepte*
- *ideala pentru taieri otel pana la 3 mm si toate tipurile de lemn si lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
15515 00003	2,5 mm / 10 tpi	130 mm	150 x 22 x 1,57 mm	3	84,29
15515 00025	2,5 mm / 10 tpi	130 mm	150 x 22 x 1,57 mm	25	631,80
15515 00099	2,5 mm / 10 tpi	130 mm	150 x 22 x 1,57 mm	100	2401,31

3050/225

Panza Bi-Metal pentru fierastrau sabie pentru demolari

- *dinti frezati, ceaprazuire din lateral*
- *panza robusta pentru taieri rapide si drepte*
- *ideala pentru taieri otel pana la 3 mm si toate tipurile de lemn si lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





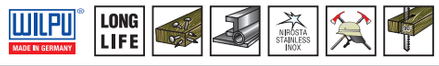
	TPI	Lungime taiere	Dimensiuni	Ambalare	
15522 00003	2,5 mm / 10 tpi	205 mm	225 x 22 x 1,57 mm	3	120,50
15522 00025	2,5 mm / 10 tpi	205 mm	225 x 22 x 1,57 mm	25	952,94
15522 00099	2,5 mm / 10 tpi	205 mm	225 x 22 x 1,57 mm	100	3526,08

3050/300

Panza Bi-Metal pentru fierastrau sabie pentru demolari

- *dinti frezati, ceaprazuire din lateral*
- *panza robusta pentru taieri rapide si drepte*
- *ideala pentru taieri otel pana la 3 mm si toate tipurile de lemn si lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



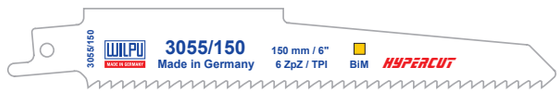


	TPI	Lungime taiere	Dimensiuni	Ambalare	
15530 00003	2,5 mm / 10 tpi	280 mm	300 x 22 x 1,57 mm	3	154,56
15530 00025	2,5 mm / 10 tpi	280 mm	300 x 22 x 1,57 mm	25	1191,49
15530 00099	2,5 mm / 10 tpi	280 mm	300 x 22 x 1,57 mm	100	4527,56

3055/150

Panza Bi-Metal pentru fierastrau sabie pentru demolari

- *dinti frezati, ceaprazuire din lateral*
- *panza robusta pentru taieri rapide si drepte*
- *ideala pentru taieri lemn < 100 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
15715 00003	4,2 mm / 6 tpi	130 mm	150 x 22 x 1,57 mm	3	125,74
15715 00025	4,2 mm / 6 tpi	130 mm	150 x 22 x 1,57 mm	25	927,53

Lemn Metal Universal Special

3055/225

Panza Bi-Metal pentru fierastrau sabie pentru demolari

- *dinti frezati, ceaprazuire din lateral*
- *panza robusta pentru taieri rapide si drepte*
- *ideala pentru taieri lemn < 190 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
15722 00003	4,2 mm / 6 tpi	205 mm	225 x 22 x 1,57 mm	3	**104,48**
15722 00025	4,2 mm / 6 tpi	205 mm	225 x 22 x 1,57 mm	25	**809,32**

3055/300

Panza Bi-Metal pentru fierastrau sabie pentru demolari

- *dinti frezati, ceaprazuire din lateral*
- *panza robusta pentru taieri rapide si drepte*
- *ideala pentru taieri lemn < 250 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



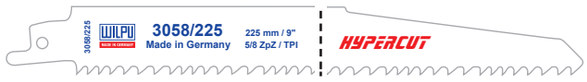


	TPI	Lungime taiere	Dimensiuni	Ambalare	
15730 00003	4,2 mm / 6 tpi	280 mm	300 x 22 x 1,57 mm	3	**142,85**

3058/225

Panza Bi-Metal pentru fierastrau sabie pentru demolari

- *dinti frezati, ceaprazuire din lateral*
- *panza robusta pentru taieri rapide si drepte*
- *ideala pentru taieri lemn si lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



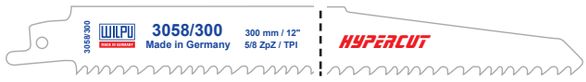


	TPI	Lungime taiere	Dimensiuni	Ambalare	
15622 00003	5/3,2 mm / 5/8 tpi	205 mm	225 x 22 x 1,57 mm	3	**125,74**
15622 00025	5/3,2 mm / 5/8 tpi	205 mm	225 x 22 x 1,57 mm	25	**927,83**

3058/300

Panza Bi-Metal pentru fierastrau sabie pentru demolari

- *dinti frezati, ceaprazuire din lateral*
- *panza robusta pentru taieri rapide si drepte*
- *ideala pentru taieri lemn si lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



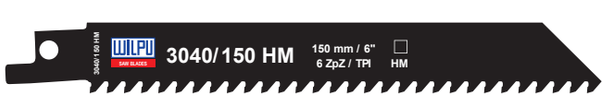


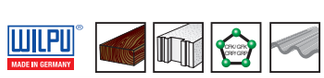
	TPI	Lungime taiere	Dimensiuni	Ambalare	
15630 00003	5/3,2 mm / 5/8 tpi	280 mm	300 x 22 x 1,57 mm	3	**161,19**
15630 00025	5/3,2 mm / 5/8 tpi	280 mm	300 x 22 x 1,57 mm	25	**1191,49**

3040/150 HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura cu carbura de tungsten*
- *ideala pentru lemn dur, BCA, produse ranforsate cu fibra de sticla*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





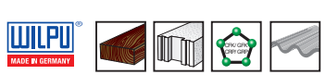
	TPI	Lungime taiere	Dimensiuni	Ambalare	
16115 00001	4,2 mm / 6 tpi	130 mm	150 x 19 x 1,3 mm	1	**170,74**

3040/300 HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura cu carbura de tungsten*
- *ideala pentru lemn dur, BCA, produse ranforsate cu fibra de sticla*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



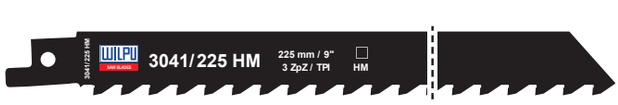


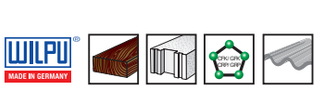
	TPI	Lungime taiere	Dimensiuni	Ambalare	
16130 00001	4,2 mm / 6 tpi	280 mm	300 x 19 x 1,3 mm	1	**254,42**

3041/225 HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura cu carbura de tungsten*
- *ideala pentru lemn dur, BCA, produse ranforsate cu fibra de sticla*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



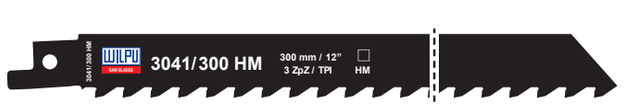


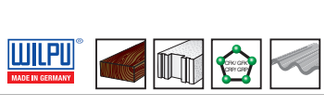
	TPI	Lungime taiere	Dimensiuni	Ambalare	
16222 00001	8,5 mm / 3 tpi	205 mm	225 x 19 x 1,3 mm	1	**136,84**

3041/300 HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura cu carbura de tungsten*
- *ideala pentru lemn dur, BCA, produse ranforsate cu fibra de sticla*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





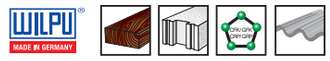
	TPI	Lungime taiere	Dimensiuni	Ambalare	
16230 00001	8,5 mm / 3 tpi	280 mm	300 x 19 x 1,3 mm	1	**159,49**

3041/400 HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura cu carbura de tungsten*
- *ideala pentru lemn dur, BCA, produse ranforsate cu fibra de sticla*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





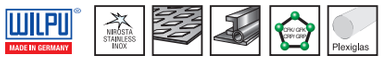
	TPI	Lungime taiere	Dimensiuni	Ambalare	
16240 00001	8,5 mm / 3 tpi	380 mm	400 x 19 x 1,3 mm	1	**242,86**

3042/115 HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura rectificata, cu carbura de tungsten*
- *ideala pentru otel inoxidabil, produse ranforsate cu fibra de sticla, epoxy*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





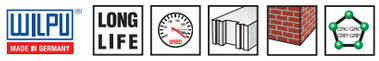
	TPI	Lungime taiere	Dimensiuni	Ambalare	
16310 00002	1,4 mm / 18 tpi	95 mm	115 x 19 x 1,25 mm	2	**125,59**

3043/235 HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura cu carbura de tungsten, unghi de ascutire pozitiv*
- *ideala pentru taieri rapide in BCA, caramida, fibro-ciment*
- *grosime de taiere: 2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
16423 00001	10 mm / 2,5 tpi	205 mm	215 x 20 x 1,2 mm	1	**188,46**

3043/300 HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura cu carbura de tungsten, unghi de ascutire pozitiv*
- *ideala pentru taieri rapide in BCA, caramida, fibro-ciment*
- *grosime de taiere: 2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil*





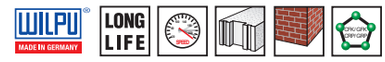
	TPI	Lungime taiere	Dimensiuni	Ambalare	
16430 00001	10 mm / 2,5 tpi	280 mm	300 x 20 x 1,2 mm	1	**218,97**

3043/300H HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura cu carbura de tungsten, unghi de ascutire pozitiv*
- *ideala pentru taieri rapide in BCA, caramida, fibro-ciment*
- *grosime de taiere: 2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





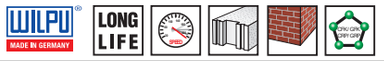
	TPI	Lungime taiere	Dimensiuni	Ambalare	
16431 00001	10 mm / 2,5 tpi	280 mm	300 x 50 x 1,2 mm	1	**255,80**

3043/450H HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura cu carbura de tungsten, unghi de ascutire pozitiv*
- *ideala pentru taieri rapide in BCA, caramida, fibro-ciment*
- *grosime de taiere: 2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
16450 00001	10 mm / 2,5 tpi	430 mm	450 x 50 x 1,2 mm	1	**358,28**

3044/235 HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura cilindrica cu carbura de tungsten, unghi de ascutire pozitiv*
- *ideala pentru taieri drepte in BCA, caramida, clinker*
- *grosime de taiere: 2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



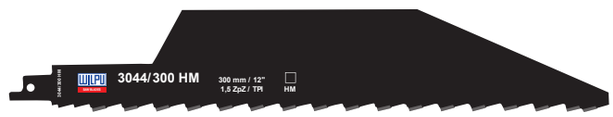


	TPI	Lungime taiere	Dimensiuni	Ambalare	
16523 00001	17 mm / 1,5 tpi	205 mm	215 x 20 x 1,1 mm	1	**155,02**

3044/300H HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura cilindrica cu carbura de tungsten, unghi de ascutire pozitiv*
- *ideala pentru taieri drepte in BCA, caramida, clinker*
- *grosime de taiere: 2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
16530 00001	17 mm / 1,5 tpi	280 mm	300 x 50 x 1,1 mm	1	**221,44**

3044/400 HM

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *dantura cilindrica cu carbura de tungsten, unghi de ascutire pozitiv*
- *ideala pentru taieri drepte in BCA, caramida, clinker*
- *grosime de taiere: 2,5 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





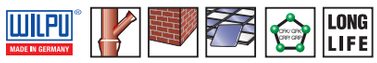
	TPI	Lungime taiere	Dimensiuni	Ambalare	
16540 00001	8,5 mm / 3 tpi	380 mm	400 x 19 x 1,3 mm	1	**242,86**

D 12/150

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *lama cu carbura de tungsten*
- *ideala pentru tevi din fonta, caramida, placi ceramice, materiale ranforsate cu fibra de sticla*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





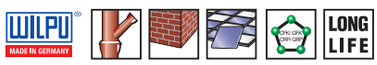
	TPI	Lungime taiere	Dimensiuni	Ambalare	
16815 00002	-	130 mm	150 x 19 x 1,05 mm	2	**90,76**

D 12/200

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *lama cu carbura de tungsten*
- *ideala pentru tevi din fonta, caramida, placi ceramice, materiale ranforsate cu fibra de sticla*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





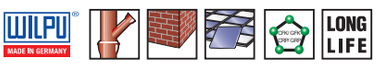
	TPI	Lungime taiere	Dimensiuni	Ambalare	
16820 00002	-	180 mm	200 x 19 x 1,05 mm	2	**118,04**

D 12/230

Panza HM/T.C.T. pentru fierastrau sabie pentru materiale de constructii

- *lama cu carbura de tungsten*
- *ideala pentru tevi din fonta, caramida, placi ceramice, materiale ranforsate cu fibra de sticla*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
16823 00002	-	210 mm	230 x 19 x 1,05 mm	2	**131,75**

INOX 300

Panza HM/T.C.T. pentru fierastrau sabie pentru alimente inghetate

- *panza din otel inoxidabil, dinti frezati, ceaprazuire din lateral*
- *ideala pentru alimente inghetate, ghiata pana la 250 mm si lemn*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
16930 00001	6,35 mm / 4 tpi	280 mm	300 x 25 x 1,25 mm	1	**59,17**

INOX 400

Panza HM/T.C.T. pentru fierastrau sabie pentru alimente inghetate

- *panza din otel inoxidabil, dinti frezati, ceaprazuire din lateral*
- *ideala pentru alimente inghetate, ghiata pana la 350 mm si lemn*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
16940 00001	6,35 mm / 4 tpi	380 mm	400 x 25 x 1,25 mm	1	**90,30**

RWM 225

Panza HCS/CV pentru fierastrau sabie pentru piele, cauciuc si carton

- *dantura dublu ondulata*
- *ideala pentru burete (EPS, PUR), polistiren, piele, cauciuc, carton, covoare pana la 175 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
16022 00002	-	205 mm	225 x 19 x 1,27 mm	2	**81,52**

RWM 300

Panza HCS/CV pentru fierastrau sabie pentru piele, cauciuc si carton

- *dantura dublu ondulata*
- *ideala pentru burete (EPS, PUR), polistiren, piele, cauciuc, carton, covoare pana la 250 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



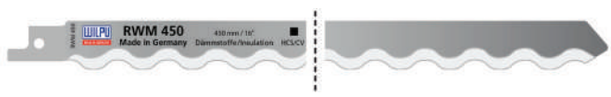


	TPI	Lungime taiere	Dimensiuni	Ambalare	
16030 00003	-	280 mm	300 x 19 x 1,27 mm	2	**140,23**

RWM 450

Panza HCS/CV pentru fierastrau sabie pentru piele, cauciuc si carton

- *dantura dublu ondulata*
- *ideala pentru burete (EPS, PUR), polistiren, piele, cauciuc, carton, covoare pana la 400 mm*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
16045 00003	-	430 mm	450 x 19 x 1,27 mm	2	185,53

RWM 500 DS

Panza HCS/CV pentru fierastrau sabie pentru piele, cauciuc si carton

- *dantura ondulata dubla, pentru taieri rapide si curate in vata minerala, spume (EPS/PUR), polistiren, piele, cauciuc, hartie cu grosimi de pana la 450 mm.*
- *zona ingusta este recomandata pentru taieri in materiale moi si flexibile cum ar fi vata minerala.*
- *zona mai lata este recomandata pentru materiale rigide cum ar fi placi de spuma (EPS/PUR).*
- *recomandat pentru utilizare manuala impreuna cu manerul Multi-Tool.*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





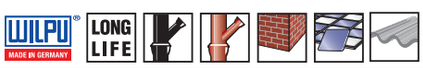
	TPI	Lungime taiere	Dimensiuni	Ambalare	
16050 00001	-	380 mm	400 x 19 x 1,27 mm	5	307,43

DT 200

Panza HCS/CV pentru fierastrau sabie pentru materiale de constructii si placi ceramice

- *lama diamantata*
- *ideala pentru tevi din fonta, fonta, caramida, placi ceramice si produse ramforsate cu fibra de sticla*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*





	TPI	Lungime taiere	Dimensiuni	Ambalare	
16920 00001	-	180 mm	200 x 19 x 1,05 mm	3	131,45

006/150 BI

Panza Bi-Metal pentru fierastrau sabie pentru neferoase, otel, PVC si lemn cu cuie

- *panza speciala cu ascutire M, patentata*
- *dantura robusta cu taiere in ambele sensuri, asigurand o taiere rapida si durata de viata prelungita*
- *recomandata pentru otel 1,5-6 mm, metale neferoase, PVC, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



Utilizati cu actionare orbitala!



	TPI	Lungime taiere	Dimensiuni	Ambalare	
18515 00005	1,3 mm / 8 tpi	130 mm	150 x 19 x 0,9 mm	5	108,79

006/200 BI

Panza Bi-Metal pentru fierastrau sabie pentru neferoase, otel, PVC si lemn cu cuie

- *panza speciala cu ascutire M, patentata*
- *dantura robusta cu taiere in ambele sensuri, asigurand o taiere rapida si o durata de viata prelungita*
- *recomandata pentru otel 1,5-6 mm, metale neferoase, PVC, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*

Utilizati cu actionare orbitala!





	TPI	Lungime taiere	Dimensiuni	Ambalare	
18520 00005	1,3 mm / 8 tpi	180 m	200 x 19 x 0,9 mm	5	126,05

007/150 BI

Panza Bi-Metal pentru fierastrau sabie pentru neferoase, otel, PVC si lemn cu cuie

- *panza speciala cu ascutire M, patentata*
- *dantura robusta cu taiere in ambele sensuri, asigurand o taiere rapida si o durata de viata prelungita*
- *recomandata pentru otel 2,5-10 mm, metale neferoase, PVC, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*

Utilizati cu actionare orbitala!





	TPI	Lungime taiere	Dimensiuni	Ambalare	
18615 00005	1,7 mm / 5 tpi	130 mm	150 x 19 x 0,9 mm	5	108,79

007/200 BI

Panza Bi-Metal pentru fierastrau sabie pentru neferoase, otel, PVC si lemn cu cuie

- *panza speciala cu ascutire M, patentata*
- *dantura robusta cu taiere in ambele sensuri, asigurand o taiere rapida si o durata de viata prelungita*
- *recomandata pentru otel 2,5-10 mm, metale neferoase, PVC, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*

Utilizati cu actionare orbitala!





	TPI	Lungime taiere	Dimensiuni	Ambalare	
18620 00005	1,7 mm / 5 tpi	180 mm	200 x 19 x 0,9 mm	5	126,05

007/280 BI

Panza Bi-Metal pentru fierastrau sabie pentru neferoase, otel, PVC si lemn cu cuie

- *panza speciala cu ascutire M, patentata*
- *dantura robusta cu taiere in ambele sensuri, asigurand o taiere rapida si o durata de viata prelungita*
- *recomandata pentru otel 2,5-10 mm, metale neferoase, PVC, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*

Utilizati cu actionare orbitala!





	TPI	Lungime taiere	Dimensiuni	Ambalare	
18628 00005	1,7 mm / 5 tpi	260 mm	280 x 19 x 0,9 mm	5	147,93

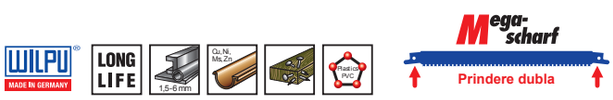
007 DS/240 BI

Panza Bi-Metal cu prindere in ambele parti pentru fierastrau sabie pentru neferoase, otel, PVC si lemn cu cuie

- *panza speciala cu ascutire M, patentata*
- *dantura robusta cu taiere in ambele sensuri, asigurand o taiere rapida si o durata de viata prelungita*
- *recomandata pentru otel > 2,5 mm, metale neferoase, PVC, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*

Utilizati cu actionare orbitala!





	TPI	Lungime taiere	Dimensiuni	Ambalare	
18822 00005	1,7 mm / 5 tpi	200 mm	240 x 19 x 0,9 mm	5	**131,14**

14699 00000

Expozitor panze pentru fierastrau sabie

- *include panze pentru lemn, matal pentru aplicatii speciale sau universale*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*



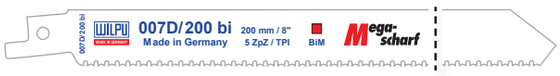
	TPI	Lungime taiere	Dimensiuni	Ambalare	
3 x 3019-150	4,2 mm / 6 tpi	130 mm	150 x 19 x 1,27 mm	5	**7600,90**
3 x 3021-150	4,2 mm / 6 tpi	130 mm	150 x 19 x 1,27 mm	5	
3 x 3021-150 Bi	4,2 mm / 6 tpi	130 mm	150 x 19 x 1,27 mm	5	
3 x 3021-225 Bi	4,2 mm / 6 tpi	205 mm	225 x 19 x 1,27 mm	5	
3 x 3021-300 Bi	4,2 mm / 6 tpi	280 mm	300 x 19 x 1,27 mm	5	
3 x 3029-240	6,35-5 mm / 4-5 tpi	220 mm	240 x 19 x 1,27 mm	5	
3 x 3030-300	3,0 mm / 8,5 tpi	280 mm	300 x 19 x 1,27 mm	5	
3 x 1014C-150	1,8 - 2,5 mm / 10-14 tpi	130 mm	150 x 19 x 0,9 mm	5	
3 x 1014C-200	1,8 - 2,5 mm / 10-14 tpi	180 mm	200 x 19 x 0,9 mm	5	
3 x 1014CD-200	1,8 - 2,5 mm / 10-14 tpi	180 mm	200 x 19 x 1,27 mm	5	
3 x 810F-150	1,8 - 2,5 mm / 10-14 tpi	130 mm	150 x 19 x 1,27 mm	5	
3 x 3013-150	1,8 mm / 14 tpi	130 mm	150 x 19 x 0,9 mm	5	
3 x 3014-150	1,4 mm/ 18 tpi	130 mm	150 x 19 x 0,9 mm	5	
3 x 3014-200	1,4 mm/ 18 tpi	180 mm	200 x 19 x 0,9 mm	5	
3 x 3018-200	2,5 mm/ 10 tpi	180 mm	200 x 19 x 0,9 mm	5	
3 x 3018-280	2,5 mm/ 10 tpi	260 mm	280 x 19 x 0,9 mm	5	
3 x 3055-150	4,2 mm/ 6 tpi	130 mm	150 x 22 x 1,57 mm	5	
3 x 3050-150	1,5 mm/ 10 tpi	130 mm	150 x 22 x 1,57 mm	5	
3 x 3056-225	1,8 - 2,5 mm / 10-14 tpi	205 mm	225 x 25 x 0,9 mm	5	
3 x D 12-200	-	180 mm	200 x 19 x 1,05 mm	5	
3 x 006-150	1,3 mm/ 19 tpi	130 mm	150 x 19 x 0,9 mm	5	
3 x 007-150	1,7 mm/ 15 tpi	130 mm	150 x 19 x 0,9 mm	5	
3 x RWM 300	-	280 mm	300 x 19 x 1,27 mm	5	
3 x 3er Sortiment	-	-	-	3	

007 D/200 bi

Panza Bi-Metal pentru fierastrau sabie pentru neferoase, otel, PVC si lemn cu cuie

- *panza speciala cu ascutire M, patentata*
- *dantura robusta cu taiere in ambele sensuri, asigurand o taiere rapida si o durata de viata prelungita*
- *recomandata pentru otel > 2,5 mm, metale neferoase, PVC, lemn cu cuie*
- *fierastraie: AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer*

Utilizati cu actionare orbitala!





	TPI	Lungime taiere	Dimensiuni	Ambalare	
18720 00005	1,7 mm / 5 tpi	180 mm	200 x 19 x 1,27 mm	5	**169,66**

Multi-Tool

Maner Multi-Tool

- *manerul Multi-Tool poate fi utilizat cu panze de fierastrau sabie cu prindere standard 1/2" precum si biti hexagonali 1/4".*
- *schimbare simpla si rapida a panzei/bitului datorita sistemului de blocare prin rotire.*
- *utilizabila chiar si in zone greu accesibile, acolo unde accesul sculelor electrice este limitat.*
- *magazie depozitare pentru 6 biti (bitii nu sunt inclusi).*
- *in combinatie cu panza de fierastrau sabie este solutia perfecta pentru taierea materialelor de izolare, a materialelor moi, gips-cartonului, polistirenului, etc.*
- *cu panzele de fierastrau potrivite poate fi utilizat pentru aplicatii simple in lemn si metal.*



sistem de blocare prin rotire



maner rabatabil



	Ambalare	
50605 00000	1	**96,16**

50606 00001

Maner Multi-Tool cu panza fierastrau sabie RWM

• maner Multi-Tool Wilpu cu panza fierastrau sabie pentru materiale de izolare: 1 x RWM 225 cu lungime taiere 205 mm si 1 x RWM 300 cu lungime taiere 280 mm.
• unealta perfecta pentru taierea materialelor de izolare.



	Componente	Ambalare	
50606 00001	3	1	**203,26**
Multi-Tool, 1 x RWM 225, 1 x RWM 300			

Multi-Tool 1 (PH/PZ)

Maner Multi-Tool cu panze fierastrau si biti

• maner Multi-Tool Wilpu cu panza fierastrau sabie 1 x RWM 225, 1 x 3021/225, 1 x 1014C/200
3 biti PH: PH 1, PH 2, PH 3 si 3 biti PZ: PZ 1, PZ 2, PZ 3



	Componente	Ambalare	
50610 00000	9	1	**272,45**
Multi-Tool, 1 x RWM 225, 1 x 3021/225, 1 x 1014C/200 biti PH: PH 1, PH 2, PH 3 biti PZ: PZ 1, PZ 2, PZ 3			

Multi-Tool 2 (TORX®)

Maner Multi-Tool cu panze fierastrau si biti

• maner Multi-Tool Wilpu cu panza fierastrau sabie 1 x RWM 225, 1 x 3021/225, 1 x 1014C/200
biti TORX®: 2 x TX 10, 1 x TX 15, TX 20, TX 25, TX 30

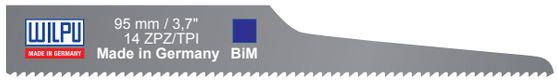


	Componente	Ambalare	
50611 00000	3	1	**272,45**
Multi-Tool, 1 x RWM 225, 1 x 3021/225, 1 x 1014C/200 biti TORX®: 2 x TX 10, 1 x TX 15, TX 20, TX 25, TX 30			

L 2014

Panza sabie pentru masini pneumatice, pentru materiale sandwich

• dantura ascutita lateral
• ideala pentru materiale sandwich
• fierastraie: Pneutec, Ober, Shinano, Rodcraft

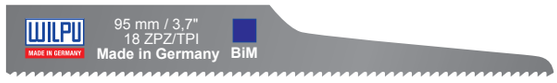


	TPI	Dimensiuni	Ambalaret	
20014 00005	1,8 mm / 14 tpi	95 x 12,3 x 0,63 mm	5	**47,00**

L 2018

Panza sabie pentru masini pneumatice, pentru plastic si aluminiu

• dantura ascutita lateral
• ideala pentru plastic si aluminiu
• fierastraie: Pneutec, Ober, Shinano, Rodcraft

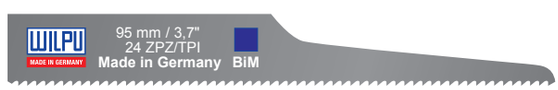


	TPI	Dimensiuni	Ambalare	
20018 00005	1,4 mm / 18 tpi	95 x 12,3 x 0,63 mm	5	**47,00**

L 2024

Panza sabie pentru masini pneumatice, pentru metal

• dantura cu ascutire ondulata
• ideala pentru otel si tabla din otel
• fierastraie: Pneutec, Ober, Shinano, Rodcraft

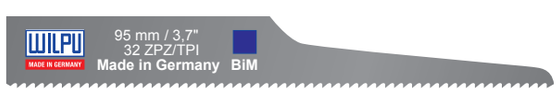


	TPI	Dimensiuni	Ambalare	
20024 00005	1,0 mm / 24 tpi	95 x 12,3 x 0,63 mm	5	**47,00**

L 2032

Panza sabie pentru masini pneumatice, pentru metal

• dantura cu ascutire ondulata
• ideala pentru otel si tabla din otel
• fierastraie: Pneutec, Ober, Shinano, Rodcraft



	TPI	Dimensiuni	Ambalare	
20032 00005	0,7 mm / 32 tpi	95 x 12,3 x 0,63 mm	5	**47,00**

LS 2014

Panza sabie pentru masini pneumatice, pentru materiale sandwich

• dantura ascutita lateral
• ideala pentru materiale sandwich
• fierastraie: SIG, Flex



	TPI	Dimensiuni	Ambalare	
20114 00005	1,8 mm / 14 tpi	95 x 12,3 x 0,63 mm	5	**47,00**

LS 2018

Panza sabie pentru masini pneumatice, pentru plastic si aluminiu

- *dantura ascutita lateral*
- *ideala pentru plastic si aluminiu*
- *fierastraie: SIG, Flex*



	TPI	Dimensiuni	Ambalare	
20118 00005	1,4 mm / 18 tpi	95 x 12,3 x 0,63 mm	5	**47,00**

LS 2024

Panza sabie pentru masini pneumatice, pentru metal

- *dantura cu ascutire ondulata*
- *ideala pentru otel si tabla din otel*
- *fierastraie: SIG, Flex*



	TPI	Dimensiuni	Ambalare	
20124 00005	1,0 mm / 24 tpi	95 x 12,3 x 0,63 mm	5	**47,00**

LS 2032

Panza sabie pentru masini pneumatice, pentru metal

- *dantura cu ascutire ondulata*
- *ideala pentru otel si tabla din otel*
- *fierastraie: SIG, Flex*



	TPI	Dimensiuni	Ambalare	
20132 00005	0,7 mm / 32 tpi	95 x 12,3 x 0,63 mm	5	**47,00**

LSK 2018

Panza sabie pentru masini pneumatice, pentru plastic si aluminiu

- *dantura ascutita lateral*
- *ideala pentru plastic si aluminiu*
- *fierastraie: SIG, Flex*



	TPI	Dimensiuni	Ambalare	
20218 00005	1,4 mm / 18 tpi	72 x 12,3 x 0,63 mm	5	**54,70**

LSK 2024

Panza sabie pentru masini pneumatice, pentru metal

- *dantura cu ascutire ondulata*
- *ideala pentru otel si tabla din otel*
- *fierastraie: SIG, Flex*



	TPI	Dimensiuni	Ambalare	
20224 00005	1,0 mm / 24 tpi	72 x 12,3 x 0,63 mm	5	**54,70**

LSK 2032

Panza sabie pentru masini pneumatice, pentru metal

- *dantura cu ascutire ondulata*
- *ideala pentru otel si tabla din otel*
- *fierastraie: SIG, Flex*

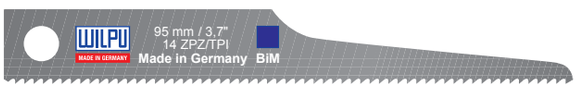


	TPI	Dimensiuni	Ambalare	
20232 00005	0,7 mm / 32 tpi	72 x 12,3 x 0,63 mm	5	**54,70**

LV 2014

Panza sabie pentru masini pneumatice, pentru materiale sandwich

- *dantura ascutita lateral*
- *ideala pentru materiale sandwich*
- *fierastraie: Chicago Pneumatic*

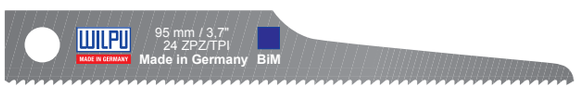


	TPI	Dimensiuni	Ambalare	
20364 00005	1,8 mm / 14 tpi	95 x 12,3 x 0,63 mm	5	**54,70**

LV 2024

Panza sabie pentru masini pneumatice, pentru metal

- *dantura cu ascutire ondulata*
- *ideala pentru otel si tabla din otel*
- *fierastraie: Chicago Pneumatic*

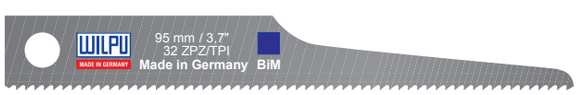


	TPI	Dimensiuni	Ambalare	
20374 00005	1,0 mm / 24 tpi	95 x 12,3 x 0,63 mm	5	**54,70**

LV 2032

Panza sabie pentru masini pneumatice, pentru metal

- *dantura cu ascutire ondulata*
- *ideala pentru otel si tabla din otel*
- *fierastraie: Chicago Pneumatic*



	TPI	Dimensiuni	Ambalare	
20382 00005	0,7 mm / 32 tpi	95 x 12,3 x 0,63 mm	5	**54,70**

Domenii de utilizare panze fierastrau vertical

pentru fierastraie verticale: **AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer**

● = speciale pentru
○ = potrivite pentru

Articol	Lungime	Lemn							Plastic				Metal				
																	
HC 19 Rbi	60 mm	●	●	●	●	●	●			○		○					
HC 19 RSTAR	91 mm	●	●	●	●	●	●		●								
HC 12	75 mm	●	●	●	●	●	○		●	○		○					
HC 12 bi	75 mm	●	●	●	●	●	○		●	○		○					
HC 12 D	75 mm	●	●	●	●	●	○		●	○		○					
HC 22 DV	75 mm	●	●	●	●	●	○		●	○		○					
HC 123 STAR	91 mm	●	●	●	●	●	○		●	●		●					
HC 12 K	50 mm	●	●	●	●	●	○		○	○		○					
HC 12 R	75 mm	●	●	●	●	●	○										
HC 12 Rbi	75 mm	●	●	●	●	●	○										
HC 13	75 mm	●	●	●	●	●			●	○		○					
HC 13 bi	75 mm	●	●	●	●	●			●	○		○					
HC 14	75 mm	●	●	●	●	●			●	○							
HC 14 D	75 mm	●	●	●	●	●			●	○							
HC 14 XD bi	75 mm	●	●	●	●	●			○	○		○					
HC 32	105 mm	●	●	●	●	●			○	○		○					
HC 32 R	105 mm	●	●	●	●	●			○	○		○					
HC 33	105 mm	●	●	●	●	●			○	○							
HC 34	105 mm	●	●	●	●	●			○	○							
HC 34 D	105 mm	●	●	●	●	●											
HCGS 14 D	75 mm	●	●	●	●	●			○								
HG 13	75 mm	●	●	●	●	●											
HG 13 G	75 mm	●	●	●	●	●											
HGS 14	75 mm	●	●	●	●	●											
HGS 14 bi	75 mm	●	●	●	●	●											
HGS 24	75 mm	●	●	●	●	●											
HGS 24 DV	75 mm	●	●	●	●	●											
HGS 34	105 mm	●	●	●	●	●											
HGS 54	155 mm	●	●	●	●	●											
HW 11	50 mm	●		●					○								
HW 12	50 mm	●		●					○								
HW 12 K	50 mm	●		●					○					○	○	●	●
MC 12 bi	75 mm										●				●	●	
MG 107	55 mm												○		●	●	
MG 107 bi	55 mm													●	●	●	
MG 11	55 mm												○	●	●	●	
MG 11 bi	55 mm													●		○	●
MG 12	55 mm												○	●		○	●
MG 12 bi	55 mm													●	●	●	
MG 21	55 mm													●		●	
MG 31	105 mm												○	●		○	
MG 31 bi	105 mm												○	●		○	
MG 32 bi	105 mm												○	●	○	○	
MG 51 bi	155 mm												○	●		○	○
MG 52 bi	155 mm												○	●	○	○	
MG 14 bi	55 mm													●	○	○	
MG 1014 bi	75 mm							●						●	○	○	
MG 3059 BI	75 mm							●						●	○	○	
MGL 1014 bi	105 mm							●						○		○	●
K 14	75 mm								○		○			○		○	●
K 14 bi	75 mm								○		○			○		○	●
K 24	75 mm								○		○		○	●	○	○	
ST 006 bi	75 mm							●	○				○	●	○	○	
ST 007 bi	105 mm							●	○								
D 1/D 2	54 mm									●							
DT 1/DT 2	54 mm									●		●					
HM 100	75 mm	●			●					●							
HM 132	105 mm	●			●					●			●				
HM 11	50 mm													○	○	○	
HM 33	91 mm									●							
HWL 100	75 mm																
HWL 54	155 mm																

Domenii de utilizare panze fierastrau vertical

pentru fierastraie verticale: **AEG, Atlas Copco, Bosch, DeWalt, Elu, Festool, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool, Stayer**

● = speciale pentru
○ = potrivite pentru

Articol	Lungime	Materiale diverse							Tip taiere						
															LONG LIFE
HC 19 R bi	60 mm								◆					◆	◆
HC 19 R STAR	91 mm								◆			◆		◆	
HC 12	75 mm								◆						
HC 12 bi	75 mm								◆						◆
HC 12 D	75 mm								◆				◆		
HC 22 DV	75 mm								◆		◆				
HC 123 STAR	91 mm								◆			◆			
HC 12 K	50 mm								◆		◆				
HC 12 R	75 mm								◆					◆	
HC 12 R bi	75 mm								◆					◆	◆
HC 13	75 mm								◆						
HC 13 bi	75 mm								◆						◆
HC 14	75 mm								◆						
HC 14 D	75 mm								◆				◆		
HC 14 XD bi	75 mm								◆		◆	◆	◆		◆
HC 32	105 mm								◆						
HC 32 R	105 mm								◆					◆	
HC 33	105 mm								◆						
HC 34	105 mm								◆						
HC 34 D	105 mm								◆				◆		
HGS 14 D	75 mm									◆		◆	◆		
HG 13	75 mm									◆		◆			
HG 13 G	75 mm									◆					
HGS 14	75 mm									◆		◆			
HGS 14 bi	75 mm									◆		◆			◆
HGS 24	75 mm									◆	◆	◆			
HGS 24 DV	75 mm									◆	◆	◆			
HGS 34	105 mm									◆		◆			
HGS 54	155 mm									◆		◆			
HW 11	50 mm									◆					
HW 12	50 mm									◆					
HW 12 K	50 mm									◆	◆				
MC 12 bi	75 mm								◆						◆
MG 107	55 mm														
MG 107 bi	55 mm														◆
MG 11	55 mm														
MG 11 bi	55 mm														◆
MG 12	55 mm														
MG 12 bi	55 mm														◆
MG 21	55 mm											◆			
MG 31	105 mm		●												
MG 31 bi	105 mm		●												◆
MG 32 bi	105 mm		●												◆
MG 51 bi	155 mm		●												◆
MG 52 bi	155 mm		●												◆
MG 14 bi	55 mm														◆
MG 1014 bi	75 mm														◆
MG 3059 bi	75 mm														◆
MGL 1014 bi	105 mm														◆
K 14	75 mm							○							
K 14 bi	75 mm														◆
K 24	75 mm											◆			
ST 006 bi	75 mm												◆		◆
ST 007 bi	105 mm												◆		◆
D 1/D 2	54 mm	○					●	○							
DT 1/DT 2	54 mm	○					●	○							
HM 100	75 mm									◆					◆
HM 132	105 mm									◆					◆
HM 11	50 mm														◆
HM 33	91 mm														◆
Messer	75 mm				●	●									
HWL 54	155 mm				●	●									

Domenii de utilizare panze fierastrau vertical

pentru fierastraie verticale: **Black & Decker, Skil, Ryobi**

● = speciale pentru
○ = potrivite pentru

Articol	Lungime	Lemn							Plastic				Metal				
																	
UHC 12	75 mm	●	●	●	●	●	○		●	○		○					
UHC 12 R	75 mm	●	●	●	●	●	○		●			○					
UHC 14	75 mm	●	●	●	●	●			●	○							
UHC 32	105 mm	●	●	●	●	●			○	○		○					
UHG 13	75 mm	●	●	●	●	●			○								
UHG 14	75 mm	●	●	●	●	●			○								
UHGS 14	75 mm	●	●	●	●	●								●	●	●	
UMG 11	55 mm												○	●	●	●	
UMG 11 bi	55 mm													●		○	●
UMG 12	55 mm												○	●		○	●
UMG 12 bi	55 mm												○	●		○	●
UMG 31 bi	105 mm													○		○	●
UK 14 bi	75 mm								●	○	●						

Domenii de utilizare panze fierastrau vertical

pentru fierastraie verticale: **Fein AST(e) 636, 638; MOt 6-17-1**

● = speciale pentru
○ = potrivite pentru

Articol	Lungime	Lemn							Plastic				Metal				
																	
37	65 mm	●	●	●	●	●			●	○		○					
38	65 mm	●	●	●	●	●			●	○							
35	55 mm													●	●	○	
35 bi	55 mm												○	●	●	○	
36	55 mm													●		●	○
36 bi	55 mm												○	●	●	●	●
39 bi	75 mm								○					●	●	●	●
77 bi	105 mm													●			

Domenii de utilizare panze fierastrau vertical

pentru fierastraie verticale: **Black & Decker, Skil, Ryobi**

● = speciale pentru
○ = potrivite pentru

Articol	Lungime	Materiale diverse								Tip taiere						
																LONG LIFE
UHC 12	75 mm									◆						
UHC 12 R	75 mm									◆					◆	
UHC 14	75 mm									◆						
UHC 32	105 mm									◆						
UHG 13	75 mm										◆					
UHG 14	75 mm										◆					
UHGS 14	75 mm									◆		◆				
UMG 11	55 mm									◆						
UMG 11 bi	55 mm														◆	◆
UMG 12	55 mm															
UMG 12 bi	55 mm														◆	◆
UMG 31 bi	105 mm		●												◆	◆
UK 14 bi	75 mm												◆			◆

Domenii de utilizare panze fierastrau vertical

pentru fierastraie verticale: **Fein AST(e) 636, 638; MOt 6-17-1**

● = speciale pentru
○ = potrivite pentru

Articol	Lungime	Materiale diverse								Tip taiere						
																LONG LIFE
37	65 mm									◆			◆			
38	65 mm									◆			◆			
35	55 mm									◆						
35 bi	55 mm									◆						◆
36	55 mm									◆						
36 bi	55 mm									◆						◆
39 bi	75 mm															◆
77 bi	105 mm		○							◆						◆

Domenii de utilizare panze fierastrau sabie

pentru fierastraie sabie: **AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer**

● = speciale pentru
○ = potrivite pentru

Articol	Lungime	Lemn							Plastic			Metal				
																
3019/150	130 mm	●	○													
3019/225	205 mm	●	○													
3019/225 PC	205 mm	●	○													
3019/150 bi	130 mm	○	○													
3020/150	130 mm	●	○													
3021/150	130 mm	●	○						●							
3021/225	205 mm	●	○						●							
3021/300	280 mm	●	○						●							
3021/400	380 mm	●							●							
3021/150 bi	130 mm	●	○						●	○						
3021/225 bi	205 mm	●	○						●	○						
3021/300 bi	280 mm	●	○						●	○						
3022/150	130 mm	●	○						●							
3023/150	130 mm	●	○							○	●					
3023/240	220 mm	●	○													
3025/150	130 mm	●	○													
3025/300	280 mm	●	○													
3027/230	195 mm		●	●					●							
3028/230	195 mm		●	●				●	●							
3029/240	220 mm		○					●								
3030/225	205 mm	●	○					●								
3030/300	280 mm	●	○					●								
3035/240	220 mm	○	○					●								
3039/300	280 mm		○					●								
1014C/150	130 mm				●	●	●						○			
1014C/200	180 mm				●	●	●						○			
1014C/225	205 mm				●	●	●						○			
1014C/280	260 mm				●	○	●						○			
1014C/210 RS	190 mm				●	●	●						○			
1014CD/150	130 mm				●	●	●						○			
1014CD/200	180 mm				●	●	●						○			
1014CD/225	205 mm				●	●	●						○			
810C/150	130 mm				●	●	●						○			
810C/225	205 mm				●	●	●						○			
810F/150	130 mm				●	●	●						○			
810F/200	180 mm				●	●	●						○			
58C/150	130 mm	○			●	○	○						○			
58C/225	205 mm	○			●	○	○						○			
58C/300	280 mm	○			●	○	○						○			
46C/150	130 mm	●											○			
46C/210	190 mm	●											○			
3007/100	80 mm											○		●		
3015/150	130 mm											○	●	●		
3015/150	130 mm											○	●	●		
3015/200	180 mm											○	●	●		
3014/100	80 mm											○	●	○		
3014/150	130 mm											○	●	○		
3014/150 PC	130 mm											○	●	○		
3014/200	180 mm											○	●	○		
3014/250	230 mm											○	●	○		
3014/225 PC	205 mm											○	●	○		
3017/90	70 mm											○	●	○		
3013/100	80 mm											○	●	○		
3013/150	130 mm											○	●	○		
3013/200	180 mm											○	●	○		
3013/250	230 mm											○	●	○		
3013/150 PC	130 mm											○	●	○		
3013/225 PC	205 mm											○	●	○		

Domenii de utilizare panze fierastrau sabie

pentru fierastraie sabie: **AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer**

● = speciale pentru
○ = potrivite pentru

Articol	Lungime	Materiale diverse													Tip taiere				
																			LONG LIFE
3019/150	130 mm															◆			
3019/225	205 mm															◆			
3019/225 PC	205 mm															◆			
3019/150 bi	130 mm															◆			◆
3020/150	130 mm														◆				
3021/150	130 mm				●											◆			
3021/225	205 mm				●											◆			
3021/300	280 mm				●											◆			
3021/400	380 mm				●	●										◆		◆	
3021/150 bi	130 mm															◆		◆	◆
3021/225 bi	205 mm															◆		◆	◆
3021/300 bi	280 mm															◆		◆	◆
3022/150	130 mm															◆	◆		
3023/150	130 mm														◆		◆		
3023/240	220 mm														◆		◆		
3025/150	130 mm				●						○					◆			
3025/300	280 mm				●						○					◆			
3027/230	195 mm														◆				
3028/230	195 mm															◆			
3029/240	220 mm															◆			
3030/225	205 mm															◆			
3030/300	280 mm															◆			
3035/240	220 mm															◆			
3039/300	280 mm															◆			
1014C/150	130 mm															◆			◆
1014C/200	180 mm															◆			◆
1014C/225	205 mm															◆			◆
1014C/280	260 mm															◆			◆
1014C/210 RS	190 mm															◆			◆
1014CD/150	130 mm															◆		◆	◆
1014CD/200	180 mm															◆		◆	◆
1014CD/225	205 mm															◆		◆	◆
810C/150	130 mm															◆			◆
810C/225	205 mm															◆			◆
810F/150	130 mm															◆			◆
810F/200	180 mm															◆			◆
58C/150	130 mm															◆			◆
58C/225	205 mm															◆			◆
58C/300	280 mm															◆			◆
46C/150	130 mm															◆			◆
46C/210	190 mm															◆			◆
3007/100	80 mm		○												◆				◆
3015/150	130 mm		○												◆				◆
3015/150	130 mm		○												◆				◆
3015/200	180 mm		○												◆				◆
3014/100	80 mm														◆				◆
3014/150	130 mm														◆				◆
3014/150 PC	130 mm														◆				◆
3014/200	180 mm														◆				◆
3014/250	230 mm														◆				◆
3014/225 PC	205 mm														◆				◆
3017/90	70 mm														◆		◆		◆
3013/100	80 mm														◆				◆
3013/150	130 mm														◆				◆
3013/200	180 mm														◆				◆
3013/250	230 mm														◆				◆
3013/150 PC	130 mm														◆				◆
3013/225 PC	205 mm														◆				◆

Domenii de utilizare panze fierastrau sabie

pentru fierastraie sabie: **AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer**

● = speciale pentru
○ = potrivite pentru

Articol	Lungime	Lemn							Plastic			Metal				
																
3016/150	130 mm											○	●	○	●	○
3016/225	205 mm											○	●	○	●	○
3016/280	260 mm											○	●	○	●	○
3018/150	130 mm											○	●	○	●	●
3018/200	180 mm											○	●	○	●	●
3018/280	260 mm											○	●	○	●	●
3018/210 RS	190 mm				●							○	○	○	○	○
3027/230	195 mm	●	●	●												
3028/230	195 mm	●	●	●				●								
3050/150	130 mm				○	○	●		●			○	●	○	●	●
3050/225	205 mm				○	○	●		●			○	●			
3050/300	280 mm				○	○	●		●			○	●			
3055/150	130 mm	●	●													
3055/225	205 mm	●	●													
3055/300	280 mm	●	●													
3056/150	130 mm						●						○		○	
3056/225	205 mm						●						○			
3056/300	280 mm						●									
3057/150	130 mm											○	●	○		
3057/225	205 mm											○	●	○		
3057/300	280 mm											○	●	○		
3058/225	205 mm	●			○	○	○						○			
3058/300	280 mm	●			○	○	○						○			
3060/150	130 mm				○	○	●		●			○	●	○	●	●
3060/225	205 mm				○	○	●		●			○	●			
3060/300	280 mm				○	○	●		●			○	●			
3059/150 bi	130 mm											○	●	○	●	○
3040/150 HM	130 mm	●								●						
3040/300 HM	280 mm	●								●						
3041/225 HM	205 mm	●								●						
3041/300 HM	280 mm	●								●						
3041/400 HM	380 mm	●								●						
3042/115 HM	95 mm									●	●	●	●	●		
3043/235 HM	205 mm									●						
3043/300 HM	280 mm									●						
3043/300 H-HM	280 mm									●						
3043/450 HM	430 mm									●						
3044/235 HM	205 mm															
3044/300 HM	280 mm															
3044/400 HM	380 mm															
D 12/150	130 mm									○						
D 12/200	180 mm									○						
D 12/230	210 mm									○						
DT/200	180 mm									○						
006/150 bi	130 mm	○			●	●	●		○							
006/200 bi	180 mm	○			●	●	●		○							
007/150 bi	130 mm	○			●	●	●		○				●		●	
007/200 bi	180 mm	○			●	●	●		○				●		●	
007/280 bi	260 mm	○			●	●	●		○				●		●	
007D/200 bi	180 mm	○			●	●	●		○							
007DS/240 bi	200 mm	○							○							
Inox 300	280 mm	○							○							
Inox 400	380 mm	○							○							
RWM 225	205 mm								○							
RWM 300	280 mm								○							
RWM 450	430 mm								○							
RWM 500 DS	480 mm								○							

Domenii de utilizare panze fierastrau sabie

pentru fierastraie sabie: **AEG, Atlas Copco, Black & Decker, Bosch, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Porter Cable, Rems, Rockwell, Roller, Skil, Stayer**

● = speciale pentru
○ = potrivite pentru

Articol	Lungime	Materiale diverse													Tip taiere				
																			LONG LIFE
3016/150	130 mm																		◆
3016/225	205 mm																		◆
3016/280	260 mm																		◆
3018/150	130 mm																		◆
3018/200	180 mm																		◆
3018/280	260 mm																		◆
3018/210 RS	190 mm																		◆
3027/230	195 mm														◆				
3028/230	195 mm														◆				
3050/150	130 mm												●			◆		◆	◆
3050/225	205 mm												●			◆		◆	◆
3050/300	280 mm												●			◆		◆	◆
3055/150	130 mm												●			◆		◆	◆
3055/225	205 mm												●			◆		◆	◆
3055/300	280 mm												●			◆		◆	◆
3056/150	130 mm																		
3056/225	205 mm																		
3056/300	280 mm																		
3057/150	130 mm														◆			◆	◆
3057/225	205 mm														◆			◆	◆
3057/300	280 mm														◆			◆	◆
3058/225	205 mm												●			◆			◆
3058/300	280 mm												●			◆			◆
3060/150	130 mm												●			◆		◆	◆
3060/225	205 mm												●			◆		◆	◆
3060/300	280 mm												●			◆		◆	◆
3059/150 bi	130 mm																		◆
3040/150 HM	130 mm									●	●					◆			◆
3040/300 HM	280 mm										●	●				◆			◆
3041/225 HM	205 mm										●	●				◆			◆
3041/300 HM	280 mm										●	●				◆			◆
3041/400 HM	380 mm										●	●				◆			◆
3042/115 HM	95 mm															◆			◆
3043/235 HM	205 mm			●							●	●				◆			◆
3043/300 HM	280 mm			●							●	●				◆			◆
3043/300 H-HM	280 mm			●							●	●				◆			◆
3043/450 HM	430 mm			●							●	○				◆			◆
3044/235 HM	205 mm			●							●	○				◆			◆
3044/300 HM	280 mm			●							●	○				◆			◆
3044/400 HM	380 mm			○							●	○				◆			◆
D 12/150	130 mm		●	○					○		●	○							
D 12/200	180 mm		●	○					○		●	○							
D 12/230	210 mm		●	○					○		●	○							
DT/200	180 mm	●	●	●					●										
006/150 bi	130 mm														◆				◆
006/200 bi	180 mm														◆				◆
007/150 bi	130 mm														◆				◆
007/200 bi	180 mm														◆				◆
007/280 bi	260 mm														◆				◆
007D/200 bi	180 mm														◆			◆	◆
007DS/240 bi	200 mm																		
Inox 300	280 mm													●					
Inox 400	380 mm													●					
RWM 225	205 mm					●	●	●											
RWM 300	280 mm					●	●	●											
RWM 450	430 mm					●	●	●											
RWM 500 DS	480 mm					●	●	●											

8% COBALT HSS BIMETAL

Panza bomfaier HSS Co 8% pentru debitare otel dur si otel inoxidabil

Aplicatii si avantaje:

• potrivite in special pentru oteluri foarte dure cu rezistenta la rupere de pana la 1200 N / mm², otel inoxidabil si materiale similare
• material bimetal din otel rapid, rezistente la rupere, tratament termic dublu pentru reducerea socurilor, taiere usoara
• panzele sunt destinate utilizarii profesionale si DIY
• duritatea dintilor: 64-67 HRC
• duritatea corpului: 50 ± 2 HRC
• ceaprazuirea dintilor: ondulata
• dimensiuni: 300 x 13 x 0,63 mm (12 x ½ x 0,025")



Pilana METAL

	Lungime	Latime	Grosime	Pasul dintilor	
BC-3013-18-P	300	13	0,63	18 TPI	**5,70**
BC-3013-24-P	300	13	0,63	24 TPI	**5,70**
BC-3013-32-P	300	13	0,63	32 TPI	**5,70**

HSS BIMETAL

Panza bomfaier HSS Bi-Metal pentru debitare otel dur

Aplicatii si avantaje:

• potrivite in special pentru otel cu o rezistenta la rupere de pana la 1100 N / mm² si materiale similare
• lama cu o durata lunga de viata: material HSS Bi-Metal, rezistent la rupere, tratament termic dublu pentru reducerea socurilor, taiere neteda si fara efort
• panzele sunt destinate pentru uz profesional si DIY
• material: HSS otel M2 (dantura) DIN 1.3343 si D6A (corpul panzei)
• duritatea dintilor: 63-65 HRC
• duritatea corpului panzei: 50 ± 1 HRC
• dantura ondulata



Pilana METAL

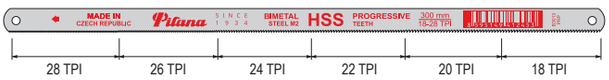
	Lungime	Latime	Grosime	Pasul dintilor	
B-3013-18-P	300	13	0,63	18 TPI	**4,98**
B-3013-24-P	300	13	0,63	24 TPI	**4,98**
B-3013-32-P	300	13	0,63	32 TPI	**4,98**

HSS BIMETAL PROGRESSIVE

Panza bomfaier HSS Bi-Metal cu dantura progresiva pentru debitare profile

Aplicatii si avantaje:

• potrivite in special pentru debitare usoara a profilelor cu grosimi diferite ale peretilor.
• lama cu o durata lunga de viata: material HSS Bi-Metal, rezistent la rupere, tratament termic dublu pentru reducerea socurilor, taiere neteda si fara efort
• utilizare: diverse materiale, in special otel cu rezistenta la rupere < 1100 N/mm²
• panzele sunt destinate pentru uz profesional si DIY
• material: HSS otel M2 (dantura) DIN 1.3343 si D6A (corpul panzei)
• duritatea dintilor: 64-65 HRC
• duritatea corpului panzei: 50 ± 1 HRC
• dantura ondulata



Pilana METAL

	Lungime	Latime	Grosime	Pasul dintilor	
B-3013-PR-P	300	13	0,63	18-28 TPI	**5,55**

HSS BIMETAL VARIABLE

Panza bomfaier HSS Bi-Metal cu dantura variabila pentru taieri rapide

Aplicatii si avantaje:

• potrivite in special pentru debitare rapida
• lama cu o durata lunga de viata: material HSS Bi-Metal, rezistent la rupere, tratament termic dublu pentru reducerea socurilor, taiere neteda si fara efort
• utilizare: diverse materiale, in special otel cu rezistenta la rupere < 1100 N/mm²
• panzele sunt destinate pentru uz profesional si DIY
• material: HSS otel M2 (dantura) DIN 1.3343 si D6A (corpul panzei)
• duritatea dintilor: 64-65 HRC
• duritatea corpului panzei: 50 ± 1 HRC
• dantura ondulata



Pilana METAL

	Lungime	Latime	Grosime	Pasul dintilor	
B-3013-VA-P	300	13	0,63	20/24 TPI	**5,24**

3% COBALT HSS FLEXIBLE

Panza bomfaier HSS Co 3% pentru debitare otel dur si otel inoxidabil

• panzele sunt fabricate din benzi de otel HSS cu cobalt cu zona dintilor intarit
• tratamentul termic creeaza suprafete longitudinale diferite duritati
• dintii au o duritate de 63-65 HRS si sunt urmati de cateva zone cu duritate descrescatoare
• datorita acestei metode de tratare termica, panzele ofera o flexibilitate remarcabila

Aplicatii si avantaje:

• potrivite in special pentru oteluri foarte dure cu o rezistenta la rupere de pana la 900 N / mm², otel inoxidabil si materiale similare
• otel rapid, flexibilitate combinata cu duritate, incasabile, continut ridicat de cobalt, taiere precisa, neteda si sigura
• panzele sunt destinate utilizarii profesionale de DIY
• duritatea dintilor: 63-65 HRC
• ceaprazuirea dintilor: ondulata
• dimensiuni: 300 x 13 x 0,60 mm (12 x ½ x 0,024")



Pilana METAL

	Lungime	Latime	Grosime	Pasul dintilor	
FC-3013-18-P	300	13	0,60	18 TPI	**5,84**
FC-3013-24-P	300	13	0,60	24 TPI	**5,84**
FC-3013-32-P	300	13	0,60	32 TPI	**5,84**

HSS FLEXIBLE

Panza bomfaier HSS pentru utilizare universala

• panzele sunt realizate din benzi de otel HSS cu o zona de dinti intarita
• tratamentul termic creează suprafete longitudinale cu diferite duritati
• dintii care au o duritate de 62-65 HRS sunt urmati de cateva zone cu duritate descrescatoare
• datorita acestei metode de tratare termica, panzele ofera o flexibilitate remarcabila

Aplicatii si avantaje:

• potrivite pentru taierea diferitelor materiale cu rezistenta la rupere de pana la 700 N/mm²
• durata lunga de viata: realizate din otel rapid, flexibilile, rezistente la rupere, taiere precisa, neteda si sigura
• panzele sunt destinate pentru uz profesional si DIY
• material: HSS cu zona danturii tratata DIN 1.3333 (ABC III)
• duritatea dintilor: 64 ± 1 HRC
• dantura ondulata



Pilana METAL

	Lungime	Latime	Grosime	Pasul dintilor	
F-3013-18-P	300	13	0,63	18 TPI	**4,85**
F-3013-24-P	300	13	0,63	24 TPI	**4,85**
F-3013-32-P	300	13	0,63	32 TPI	**4,85**

HSS ALL HARD

Panza bomfaier HSS pentru utilizare universala

• panze HSS ALL HARD sunt fabricate din benzi de otel HSS intarite in sectiunea transversala completa si prin urmare nu sunt flexibile
• dintare pe ambele parti, ceaprazuire ondulata
• perfect pentru taierea otelului dur, a neferoaselor si a plasticelor
• calitatea otelului: DIN 1.3333 (ABC III)
• dimensiuni: 300 x 25 x 0,65 mm (12 x 1 x 0,025")



Pilana METAL

	Lungime	Latime	Grosime	Pasul dintilor	
A-3025-24-P	300	25	0,65	24 TPI	**13,10**

HHS2-P

Panza bomfaier HSS pentru minibomfaier

• potrivita pentru taierea metalului, cuprului, lemnului, plasticului, gips-cartonului, spumei moi etc.
• dintare pe ambele parti, 14 TPI / 24 TPI
• dimensiuni: 300 x 25 x 0,75 mm



Pilana METAL

	Lungime	Latime	Grosime	Pasul dintilor	
HHS2-P	300	25	0,75	14 / 24 TPI	**3,13**

7751.1

Panza bomfaier HCS pentru utilizare DIY universala

• panzele de bomfaier HCS sunt fabricate din otel cu continut ridicat de carbon, tratate termic prin inductie
• continutul ridicat de carbon permite producerea panzelor cu aceeaei duritate ca lamelele din otel HSS aceste panze nu sunt proiectate pentru proiecte deosebit de provocatoare, dar sunt foarte potrivite pentru utilizarea DIY
• otel fabricat in Republica Ceha, care garanteaza niveluri de calitate care depasesc produse similare de pe piata
• potrivit pentru taierea DIY a diferitelor materiale, cum ar fi otel, aluminiu si alte metale neferoase, material plastic
• taiere usoara si fara efort
• material: HCS
• dimensiune 300x13x0,65 mm
• pasul dintilor 24 TPI
• duritatea dintilor: 63-65 HRC
• dantura: ondulata



KRONUS Professional Quality

	Lungime	Latime	Grosime	Pasul dintilor	
900591	300	13	0,65	24 TPI	**2,45**

7751.1/5

Set 5 panze bomfaier HCS pentru utilizare DIY universala

• panzele de bomfaier HCS sunt fabricate din otel cu continut ridicat de carbon, tratate termic prin inductie
• continutul ridicat de carbon permite producerea panzelor cu aceeaei duritate ca lamelele din otel HSS aceste panze nu sunt proiectate pentru proiecte deosebit de provocatoare, dar sunt foarte potrivite pentru utilizarea DIY
• otel fabricat in Republica Ceha, care garanteaza niveluri de calitate care depasesc produse similare de pe piata
• potrivit pentru taierea DIY a diferitelor materiale, cum ar fi otel, aluminiu si alte metale neferoase, material plastic
• taiere usoara si fara efort
• material: HCS
• dimensiune 300x13x0,65 mm
• pasul dintilor 24 TPI
• duritatea dintilor: 63-65 HRC
• dantura: ondulata



KRONUS Professional Quality

	Lungime	Latime	Grosime	Pasul dintilor	
900594	300	13	0,65	24 TPI	**16,90**

ALL HARD HIGH SPEED STEEL

Panza bomfaier HSS pentru utilizare universala

• panza rigida, All Hard, pentru o taiere foarte precisa si o durata lunga de viata
• fabricata in intregime din otel de inaltă calitate, fiecare panza este intarita exact pe toata latimea sa, puternica si rigida, asigurand o taiere perfect dreapta
• piesa de prelucrat trebuie sa fie fixata in siguranta intr-o menghina pentru a preveni ruperea lamei
• potrivita toate tipurile de materiale, inclusiv aliaje de otel si otel inoxidabil
• duritatea dintilor: 64 ± 1 HRC
• dantura ondulata
• utilizare: diverse piese, in special otel cu rezistenta la rupere < 700 N/mm²



BIPICO

	Lungime	Latime	Grosime	Pasul dintilor	
3001256324	300	12,5	0,63	24 TPI	**4,47**

BIMETAL HIGH SPEED STEEL

Panza bomfaier HSS Bi-Metal pentru utilizare universala

• panza bimetal practic incasabila pentru o performanta excelenta de taiere, rezistenta la uzura si siguranta
• combinatia dintre marginea de taiere din otel rapid M42, sudata pe un corp din aliaj flexibil, ofera un nivel de putere de taiere si o flexibilitate care este cu mult superioara panzelor flexibile conventionale
• potrivita pentru toate tipurile de materiale, inclusiv aliajelor de otelurile si otel inoxidabil
• duritatea dintilor: 64-65 HRC
• duritatea corpului panzei: 50 ± 1 HRC
• dantura ondulata
• utilizare: diverse materiale, in special otel cu rezistenta la rupere < 1100 N/mm²



BIPICO

	Lungime	Latime	Grosime	Pasul dintilor	
3001256324B	300	12,5	0,63	24 TPI	**4,28**

750.1B

Set 2 panze bomfaier HSS Bi-Metal pentru debitare otel dur

Aplicatii si avantaje:

• potrivite in special pentru otel cu o rezistenta la rupere de pana la 1100 N / mm² si materiale similare
• lama cu o durata lunga de viata: material HSS Bi-Metal, rezistent la rupere, tratament termic dublu pentru reducerea socurilor, taiere neteda si fara efort
• panzele sunt destinate pentru uz profesional si DIY
• material: HSS Bi-Metal
• duritatea dintilor: 63-65 HRC
• duritatea corpului panzei: 50 ± 1 HRC
• dantura ondulata



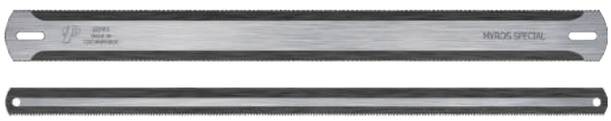
UNIOR

	Lungime	Latime	Grosime	Pasul dintilor	
621532	300	13	0,63	24 TPI	**22,67**

MYROS SPECIAL

Panza bomfaier otel carbon pentru utilizare universala

• marca originala MYROS SPECIAL acopera gama de panze nevopsite care sunt fabricate conform standardelor ČSN 222950 si ČSN 222951
• panzele sunt intărite prin inductie in ulei, care este, de asemenea, un conservant
• panzele au un design simplu pentru a asigura un pret scazut, dar valoarea utilitatii este comparabila cu valoarea panzelor HCS vopsite
• duritatea dintilor este de 63-65 HRC
• dantura ondulata
• utilizare: universala



Pilana MYROS™ METAL

	Lungime	Latime	Grosime	Pasul dintilor	
R-3013-32-P	300	13	0,65	32 TPI	**1,17**
R-3020-18-P	300	20	0,65	18 TPI	**1,36**
R-3020-24-P	300	20	0,65	24 TPI	**1,36**
R-3020-32-P	300	20	0,65	32 TPI	**1,36**
R-3025-24-P	300	25	0,65	24 TPI	**1,53**

MYROS SPECIAL KOMBI

Panza bomfaier otel carbon pentru utilizare multimaterial

• marca originala MYROS SPECIAL acopera gama de panze nevopsite care sunt fabricate conform standardelor ČSN 222950 si ČSN 222951
• panzele sunt intărite prin inductie in ulei, care este, de asemenea, un conservant
• panzele au un design simplu pentru a asigura un pret scazut, dar valoarea utilitatii este comparabila cu valoarea panzelor HCS vopsite
• duritatea dintilor este de 63-65 HRC
• cu dantura pe una sau amble parti
• dantura pe ambele parti diferita
• pe o parte dantura de 24 TPI pentru debitare metal, pe cealalta parte dantura de 8 TPI pentru debitare lemn sau 14 TPI pentru debitare plastic



Pilana MYROS™ METAL

	Lungime	Latime	Grosime	Pasul dintilor	
K-3020-24/14P	300	20	0,65	24/14 TPI	**1,43**
K-3020-24/8-P	300	20	0,65	24/8 TPI	**1,43**
K-3025-24/8-P	300	25	0,65	24/8 TPI	**1,43**

Tungsten Carbide

Panza bomfaier Tungsten Carbide pentru taiere lemn, plastic, placi ceramice

Aplicatii si avantaje:

• aceste panze Tungsten Carbide taie mai rapid si mai curat, oferind o performanta remarcabila, pe masura ce cursa de taiere este si la impingere si la tragere
• tehnologia speciala de sudura Boa ofera o eficienta sporita si o durata de viata mai lunga a lamei
• functioneaza cu mai putine agatari si vibratii, utilizand cel mai bun din otel din Marea Britanie si tungsten de inalta calitate
• potrivit pentru: aluminiu, sticla, ciment, caramida, portelan, piatra, teracota, portelan, terrazzo, placi aglomerate, MDF, ghips-carton, PVC



boa

	Lungime	Latime	Grosime	Pasul dintilor	
86012/car	300	13	-	-	**11,25**

750.1CAR

Set 2 panza bomfaier Tungsten Carbide pentru taiere lemn, plastic, placi ceramice

Aplicatii si avantaje:

• aceste panze Tungsten Carbide taie mai rapid si mai curat, oferind o performanta remarcabila, pe masura ce cursa de taiere este si la impingere si la tragere
• potrivit pentru: aluminiu, sticla, ciment, caramida, portelan, piatra, teracota, portelan, terrazzo, placi aglomerate, MDF, ghips-carton, PVC



UNIOR

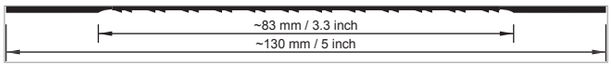
	Lungime	Latime	Grosime	Pasul dintilor	
623099	300	13	-	-	**50,74**



TAIFUN® 50

Taifun® 50 - dantura dubla, in blister carton (12 buc/set)

- *taieri curate ale muchiilor si colturilor, precum si a suprafetelor netede*
- *recomandat pentru lemn de esenta tare*



JOSEF HAUNSTETTER

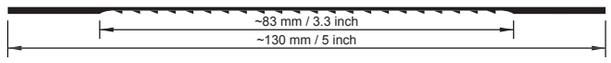


Nr.	Dimensiune mm	Dimensiune inch	TPI mm	TPI inch	
500386	3	0,82x0,36	.032x.014	9,5	24	**15,20**
500786	7	1,13x0,45	.044x.018	5,5	14	**16,36**

TAIFUN® 51

Taifun® 51 - dantura rara, in blister carton (12 buc/set)

- *taieri rapide si curate, datorita zonelor mari de evacuare*
- *recomandat pentru lemn si plastic*



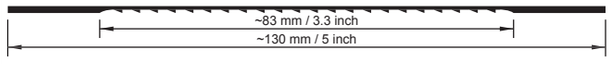
JOSEF HAUNSTETTER

Nr.	Dimensiune mm	Dimensiune inch	TPI mm	TPI inch	
510186	1	0,76x0,34	.030x.013	10	25	**15,17**
510386	3	0,90x0,38	.035x.015	8	20	**15,17**
510586	5	0,97x0,40	.038x.016	5	13	**15,17**

TAIFUN® 51

Taifun® 51 - dantura rara, in punga plastic (12 buc/set)

- *taieri rapide si curate, datorita zonelor mari de evacuare*
- *recomandat pentru lemn si plastic*



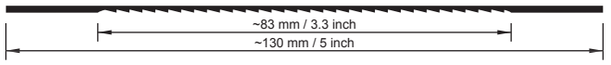
JOSEF HAUNSTETTER

Nr.	Dimensiune mm	Dimensiune inch	TPI mm	TPI inch	
510136	1	0,76x0,34	.030x.013	10	25	**12,43**
510336	3	0,90x0,38	.035x.015	8	20	**15,17**
510536	5	0,97x0,40	.038x.016	5	13	**12,43**

GOLIATH® 52

Goliath® 52 - dantura normala, in blister carton (12 buc/set)

- *taieri fine si precise in materiale moi si subtiri*



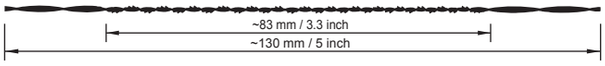
JOSEF HAUNSTETTER

Nr.	Dimensiune mm	Dimensiune inch	TPI mm	TPI inch	
520186	1	0,67x0,32	.026x.013	18	46	**14,06**
520386	3	0,28x0,36	.032x.014	14	36	**14,06**
520586	5	0,97x0,40	.038x.016	10	25	**14,06**
520786	7	1,13x0,45	.044x.018	8	20	**14,88**

ZARSA® 80

Zarsa® 80 - dantura si capete in spirala, in blister carton (12 buc/set)

- *taieri in toate directiile, taieri curbe cu raze mici*
- *recomandat pentru toate materialele uzuale*



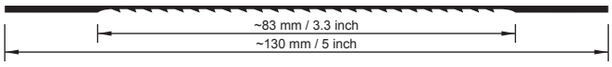
JOSEF HAUNSTETTER

Nr.	Dimensiune mm	Dimensiune inch	TPI mm	TPI inch	
800156	1	0,90	0.035	20	51	**23,24**
800586	5	1,30	0.051	14	36	**23,24**

BLITZ®

Blitz® - dantura rara, in punga plastic (12 buc/set)

- *taieri rapide si curate, datorita zonelor mari de evacuare*
- *recomandat pentru lemn si plastic*



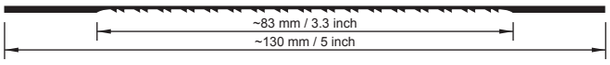
JOSEF HAUNSTETTER

Nr.	Dimensiune mm	Dimensiune inch	TPI mm	TPI inch	
E520013	3	0,85x0,35	.033x.014	9,5	24	**12,90**
E520017	7	1,20x0,48	.047x.019	6,9	18	**13,47**

BLITZ®

Blitz® - dantura dubla, in punga plastic (12 buc/set)

- *taieri excelente in lemn subtire, de esenta tare si in materiale fibroase*



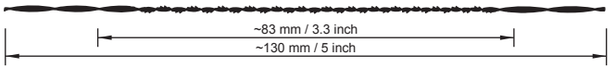
JOSEF HAUNSTETTER

Nr.	Dimensiune mm	Dimensiune inch	TPI mm	TPI inch	
E520203	3	0,85x0,35	.033x.014	9,5	24	**12,90**
E520207	7	1,20x0,48	.047x.019	6,9	18	**13,47**

TORNADO®

Tornado® - dantura si capete in spirala, in punga plastic (12 buc/set)

- *taieri in toate directiile, taieri curbe cu raze mici*
- *recomandat pentru lemn moale si gips*



JOSEF HAUNSTETTER

Nr.	Dimensiune mm	Dimensiune inch	TPI mm	TPI inch	
E524011	1	0,90	0.035	16	41	**14,95**
E524013	3	1,30	0.051	14	36	**14,95**

593970

Set 24 de panze pentru traforaj manual

- *4 buc. Taifun 50 – No.1, No.5, No.9*
- *4 buc. Goliath 52 – No.3, No.7*
- *2 buc. Gnom – No.3, No.5*



JOSEF HAUNSTETTER

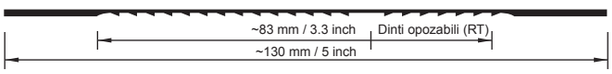
Nr. componente		
593970	24 panze	**48,06**

4 buc. **Taifun® 50** - No.1, No.5, No.9; 4 buc. **Goliath® 52** - No.3, No.7;
2 buc. **Gnom®** - No.3, No.5

TAIFUN® 56

Taifun® 56 - dinti opozabili, in blister carton (12 buc/set)

- *taieri rapide si curate, datorita zonelor mari de evacuare*
- *recomandat pentru toate tipurile de lemn si plastic*
- *dintii opozabili previn ruperea pe spatelele materialului prelucrat*



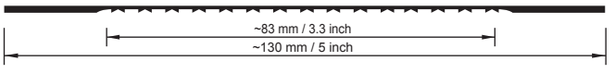
JOSEF HAUNSTETTER

Nr.	Dimensiune mm	Dimensiune inch	TPI inch	RT mm	
562086	2/0	0,62x0,29	.024x.011	30	21	**17,54**
560286	2	0,82x0,36	.032x.014	20	14	**17,54**
560786	7	1,25x0,45	.049x.018	11	8	**18,49**

ELFE® 58

Elfe® 58 - dantura multipla, in blister carton (12 buc/set)

- *taieri in ambele sensuri*
- *rezultate deosebite cu suprafete netede si muchii fara aschii*
- *recomandat pentru materiale subtiri, lemn, plastic si plexic*



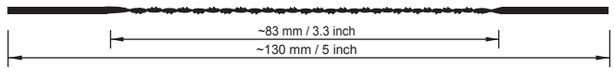
JOSEF HAUNSTETTER

Nr.	Dimensiune mm	Dimensiune inch	TPI mm	TPI inch	
582086	2/0	0,62x0,29	.024x.011	8	20	**12,43**
580386	3	0,82x0,36	.032x.014	6	16	**12,43**
580786	7	1,13x0,45	.044x.018	4	11	**12,43**

ZARSA® 81

Zarsa® 81 - dantura in spirala si capete plate, in blister carton (12 buc/set)

- *taieri rapide si curate, datorita zonelor mari de evacuare*
- *recomandat pentru lemn si plastic*



JOSEF HAUNSTETTER

Nr.	Dimensiune mm	Dimensiune inch	TPI mm	TPI inch	
810086	0	0,85	0.033	20	51	**23,24**
810386	3	1,10	0.043	16	41	**23,24**
810486	4	1,30	0.051	14	36	**25,29**

592970

Set 24 de panze pentru traforaj electric

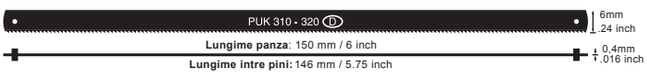
- *4 buc. Elfe – No.0, No.3*
- *4 buc. Taifun 56 GZ - No.5, No.7*
- *4 buc. Taifun 55 - No.9*
- *4 buc. Zarsa 81, dantura in spirala - No.3*



JOSEF HAUNSTETTER

Nr. componente		
592970	24 panze	**48,06**
4 buc. **Elfe® 58** - No.0, No.3; 4 buc. **Taifun® 56 GZ** - No.5, No.7 4 buc. **Taifun® 55** - No.9; 4 buc. **Zarsa® 81**, dantura in spirala - No.3		





PUK® 310

Panza universala, in blister carton (12 buc/set)

- *recomandat pentru taieri precise in metal, aluminiu, lemn, plastic, gips, neferoase*

PUK MADE IN GERMANY



JOSEF HAUNSTETTER

	Dimensiune mm	Dimensiune inch	TPI cm	TPI inch	
310121	150	6”	10	25	**41,76**

PUK® 312

Panza pentru metal, in blister carton (12 buc/set)

- *recomandat pentru taieri precise in metal, otel, cupru, plastic, plexic, neferoase*

PUK MADE IN GERMANY



JOSEF HAUNSTETTER

	Dimensiune mm	Dimensiune inch	TPI cm	TPI inch	
312121	150	6”	12	32	**41,76**

PUK® 313

Panza pentru lemn, in blister carton (12 buc/set)

- *taieri fara efort in lemn de esenta moale sau dura, PAL, carton, plastic moale*

PUK MADE IN GERMANY



JOSEF HAUNSTETTER

	Dimensiune mm	Dimensiune inch	TPI cm	TPI inch	
313121	150	6”	5,5	14	**34,52**

390170

Set panze minibomfaier 150 mm, in blister carton (12 buc/set)

- *contine cate 3 panze 310 / 312 / 313 / 320*

PUK MADE IN GERMANY



JOSEF HAUNSTETTER

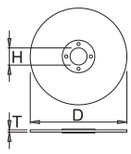
Nr. componente		
390170	12 panze	**68,77**
3 x **310 / 312 / 313 / 320**		

1200/1

Disc abraziv pentru debitare otel

- *partea plata intarita pentru pentru taierea unghiulara, viteza discului 80 m/s, prevazute cu o insertie metalica*
- *disc de taiere OSA in conformitate cu standardul European EN 12413 (nu este permisa polizarea pe partea laterala)*
- *material: A30S1BF*





UNIOR

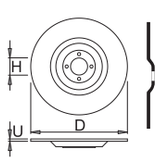
	D	T	H				
610484	115	3	22	72	1F	25	**7,15**
610485	125	3	22	87	1F	25	**7,98**
610486	180	3	22	160	1F	25	**10,56**
610487	230	3	22	282	1F	25	**14,84**

1200/2

Disc abraziv pentru debitare otel

- *centrul discului de taiere ranforsat pe o parte pentru taierea unghiulara cu polizorul, viteza de rotatie 80 m/s cu o insertie metalica*
- *discul de taiere in conformitate cu cerintele OSA ale Standardului European EN 12413 (folosirea partii laterale interzisa)*
- *material: A30S1BF*





UNIOR

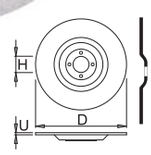
	D	U	H				
610488	115	3	22	68	1F	25	**7,15**
610489	125	3	22	88	1F	25	**7,98**
610490	180	3	22	155	1F	25	**10,56**
610491	230	3	22	257	1F	25	**14,84**

1202/2

Disc abraziv pentru debitare otel

- *centrul discului de taiere ranforsat pe o parte pentru taierea unghiulara cu polizorul, viteza de rotatie 80 m/s cu doua insertii metalica*
- *folosit la operatii in locuri greu accesibile*
- *unghiul optim de lucru intre material si centrul discului este 20° la 35°.*
- *discul de taiere in conformitate cu cerintele OSA ale Standardului European EN 12413*
- *material: A30S1BF*





UNIOR

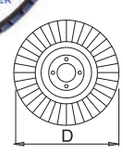
	D	U	H				
610492	115	4	22	90	1F	10	**8,56**
610493	115	6	22	147	1F	10	**10,22**
610494	125	6	22	162	1F	10	**11,53**
610495	125	8	22	235	1F	10	**13,33**
610496	180	6	22	334	1F	10	**17,22**
610499	230	6	22	554	1F	10	**26,22**

1216

Disc lamelar frontal

- *disc plat este folosit pentru viteze periferice de 80 m/s*
- *productia este aprobata de Normativele de Securitate*
- *aplicatii: polizari brute si fine, polizari borduri si indepartarea marginilor zimtate, inlaturarea vopselelor, curatirea pieselor turnate, polizarea suprafetelor.*
- *utilizari: aluminiu, materiale usoare, otel, plastic, lemn, oteluri aliate, aliaje nemetalice*





UNIOR

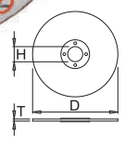
	D	Z				
610539	115	40	75	1F	20	**24,47**
610540	115	60	70	1F	20	**24,47**
610541	115	80	65	1F	20	**24,47**
610544	125	40	90	1F	20	**28,51**
610545	125	60	80	1F	20	**28,51**
610546	125	80	70	1F	20	**28,51**

1210

Disc abraziv pentru debitare otel

- *partea ranforsata a discului cu rasina pentru taieri manuale pe masini fixe cu viteza de lucru de 80 m/s, cu o insertie metalica*
- *discurile de taiere sunt in conformitate cu Standardul EN 12413 si producerea acestora este aprobata de Certificarea de Securitate DSA 1819 (lucrul pe partea laterala nu este permisa)*
- *discurile de taiere sunt confectionate conform specificatiilor pentru otel universal si materiale neferoase*
- *material: A46SBF*





UNIOR

	D	T	H				
610518	115	1	22	24	1F	25	**9,39**
610519	115	1.6	22	39	1F	25	**9,19**
610520	125	1	22	31	1F	25	**9,97**
610521	125	1.6	22	50	1F	25	**9,39**
610522	180	1.6	22	91	1F	25	**15,47**
610523	230	1.6	22	150	1F	25	**20,04**



UNIVERSAL BASIC

Disc diamantat UNIVERSAL BASIC

- *pentru taierea materialelor si materialelor abrazive cu duritate medie si scazuta*
- *materiale: materiale: ciment, caramida, materiale ceramice, etc.*
- *taiere uscata cu polizor unghiular (pana la 230 mm)*
- *taiere umeda cu masina de taiat cu masa (peste 300 mm)*



☆ *Sinterizat*

STAYER

	Diametru exterior	Inaltime segment	Diametru interior	
8294.3	115	7	22,2	**20,80**
8294.23	125	7	22,2	**26,97**
8294.37	180	7	22,2	**53,93**
8294.9	230	7	22,2	**84,75**
1500.49	300	10	25,4	**215,74**

LASER PROFESIONAL

Disc diamantat LASER PROFESIONAL

- *cel mai bine vandut disc diamantat; raportul optim de viteza si performanta in taierea materialelor de constructie*
- *materiale: ciment, caramida, caramida refractara, articole de ceramica, ardezie, gresie, mozaic, etc.*
- *taiere uscata*



☆☆☆

STAYER

	Diametru exterior	Inaltime segment	Diametru interior	
8299.5	115	7	22,2	**89,38**
8299.19	125	7	22,2	**95,54**
1500.28	180	7	22,2	**164,89**
8299.9	230	7	22,2	**208,03**

TURBO BASIC

Disc diamantat TURBO BASIC

- *cel mai competitiv disc diamantat pentru taierea materialelor abrazive cu duritate ridicata si medie; rama turbo continua asigura o mai buna precizie in taierea materialelor ceramice*
- *materiale: ciment, caramida, dale, materiale ceramice, etc.*
- *taiere uscata*



☆

STAYER

	Diametru exterior	Inaltime segment	Diametru interior	
8294.1	115	7	22,2	**25,43**
8294.35	125	7	22,2	**30,67**
8294.36	180	7	22,2	**57,02**
8294.2	230	7	22,2	**90,92**

CORTA TODO

Disc diamantat LASER CORTA TODO

- *tehnologia de lipire a diamantelor prin vidare pe corpul metalic al discului garanteaza cea mai buna aderenta a segmentelor diamantate*
- *materiale: toate tipurile de materiale de constructii*
- *taiere uscata*



☆☆☆

STAYER

	Diametru exterior	Inaltime segment	Diametru interior	
40.22	115	5	22,2	**123,28**

CERAMICA BANDA CONTINUA

Disc diamantat CERAMICA BANDA CONTINUA

- *discul cu cel mai competitiv pret pentru taierea placilor ceramice*
- *materiale: placi ceramice, blocuri de beton, caramida, etc.*
- *taiere uscata*



☆

STAYER

	Diametru exterior	Inaltime segment	Diametru interior	
8294.44	115	7	22,2	**33,90**
8294.55	125	7	22,2	**36,98**
8294.53	180	7	22,2	**70,89**
8294.56	200	7	22,2	**102,48**
8294.57	230	7	22,2/25,4	**104,79**

PORCELANICO TURBO EXTRAFINO PLATINUM

Disc diamantat PORCELANICO TURBO EXTRAFINO PLATINUM

- *taie cu precizie portelan si materiale ceramice in general; disponibil in varianta cu placa armata pentru a rezista la torsiune*
- *materiale: portelan, ceramica, gresie, marmura, materiale vitrificate, granit, etc.*
- *R: varianta include flansa*



☆☆☆☆

STAYER

	Diametru exterior	Inaltime segment	Diametru interior	
14.239	115	7	22,2	**113,26**
14.240	125	7	22,2	**127,90**
1500.104	180	7	22,2	**236,70**
1500.128	200	7	22,2	**277,38**
8294.17	230	7	22,2/25,4	**304,81**
1500.1	250	7	25,4	**385,25**

TURBO PROFESIONAL

Disc diamantat TURBO PROFESIONAL

- *utilizare universala pentru materiale de constructii cu duritate medie si medie-mare*
- *coroana crenelata cu segmente continue si largi pentru o finisare mai buna a taierii*



STAYER

	Diametru exterior	Inaltime segment	Diametru interior	
8294.5	115 mm	7	22,2	**52,39**
8294.38	125 mm	7	22,2	**73,97**
8294.39	180 mm	7	22,2	**123,28**
8294.6	230 mm	7	22,2	**208,03**

TURBO PLUS REFORZADO (LÁGRIMAS)

Disc diamantat TURBO PLUS REFORZADO (LÁGRIMAS)

- *disc diamantat ranforsat care permite taieri mai adanci cu o racire mai buna, o taiere mai ingusta si o capacitate mai mare de evacuare*
- *segment continuu pentru un finisaj mai bun*
- *disc armat pentru o rezistenta mai mare la torsiune*



STAYER

	Diametru exterior	Inaltime segment	Diametru interior	
14.20	115 mm	7	22,2 mm	**154,10**
14.36	125 mm	7	22,2 mm	**215,74**
14,350	150 mm	7	22,2 mm	**261,97**
14.62	180 mm	7	22,2 mm	**292,79**
14.93	230 mm	7	22,2 mm	**354,43**

FÓRMULA INTERCOOLER H12

Disc diamantat FÓRMULA INTERCOOLER H12

- *pentru toate tipurile de materiale de constructie cu duritate redusa, medie si medie*
- *inaltimea segmentului de 12 mm, pentru a obtine o performanta mai mare*
- *miez de otel racit*
- *segmentul crenelat pentru o taiere mai buna*



STAYER

	Diametru exterior	Inaltime segment	Diametru interior	
14.379	115 mm	12	22,2 mm	**72,43**
14.380	125 mm	12	22,2 mm	**107,87**
14.381	180 mm	12	22,2 mm	**152,87**
14.337	230 mm	12	22,2 mm	**186,46**

HURACÁN

Disc diamantat HURACÁN

- *diamant de inalta calitate pentru abrazivitate / duritate ridicata, taierea materialelor de constructie: ciment, beton armat sau nu, caramida, granit, klinker, piatra naturala si artificiala*
- *segmente turnate pentru o viteza mai mare la inceputul taierii*
- *segmente sudate cu laser*



STAYER

	Diametru exterior	Inaltime segment	Diametru interior	
14.241	115 mm	10	22,2	**241,93**
14.375	125 mm	10	22,2	**323,61**
100.1165	230 mm	10	22,2	**505,44**

HURACÁN SILENCIOSO

Disc diamantat HURACÁN SILENCIOSO

- *disc diamantat de inalta calitate pentru abrazivitate / duritate ridicata, taierea materialelor de constructie: ciment, beton cu sau fara tija, caramida, granit, klinker, piatra naturala si artificiala*
- *inaltimea segmentului de 12 mm pentru o durabilitate mai mare*
- *disc speciala silentioasa, reducere a zgomotului cu 50%.*
- *segmente sudate cu laser.*



STAYER

	Diametru exterior	Inaltime segment	Diametru interior	
100.1771	230 mm	12	22,2	**523,93**

TORNADO

Disc diamantat TORNADO

- *disc de inalta calitate pentru taierea materialelor de constructie: ciment, beton armat sau nu, caramizi etc. chiar si pentru materiale de duritate extrema, cum ar fi granit, klinker, piatra naturala si artificiala*
- *inaltimea segmentului de 12 mm pentru o durabilitate mai mare.*
- *lama si segmente armate*



STAYER

	Diametru exterior	Inaltime segment	Diametru interior	
14.416	115 mm	12	22,2	**292,79**
14.417	125 mm	12	22,2	**323,61**
14.338	230 mm	12	22,2	**523,93**

MÁRMOL ELECTRODEPOSITADO

Disc diamantat MÁRMOL ELECTRODEPOSITADO

- *disc special pentru taierea calcarului si a marmurei*
- *armatura de protectie a discului*



	Diametru exterior	Inaltime segment	Diametru interior	
8299.26	115 mm	-	22,2	**164,89**
8299.27	125 mm	-	22,2	**197,25**
36.41	180 mm	-	22,2	**258,89**
8110.30	230 mm	-	22,2	**308,20**

DISC OALA SEGMENTAT DIN ALUMINIU

Disc oala segmentat din aluminiu

- *ideal pentru piatra naturala (granit si marmura)*



	Diametru exterior	Inaltime segment	Diametru interior	
8299.1	100 GRC 30-40		M14	**261,97**
8299.8	125 SPEED		M14	**308,20**

DISC OALA DUBLU SEGMENTAT

Disc oala dublu segmentat

- *ideal pentru slefuire beton*



	Diametru exterior	Inaltime segment	Diametru interior	
8294.41	100		M14	**246,56**
14.30	125		M14	**446,89**
8294.65	180		M14	**693,44**

TURBO HURACÁN

Disc diamantat TURBO HURACÁN

- *disc de diamant de inalta calitate pentru materiale de constructie, inclusiv cu duritate ridicata Granit, Klinker, piatra artificiala, portelan, gresie, ...*
- *segment turbo continuu pentru o finisare mai buna a taierii*
- *inaltimea segmentului de 12 mm pentru o performanta mai buna*
- *miez de otel răcit, care permite o durata mai lunga de taiere continua*



	Diametru exterior	Inaltime segment	Diametru interior	
14.301	115 mm	10	22,2	**138.69**
14.302	125 mm	10	22,2	**200.33**
14.304	230 mm	12	22,2	**385.25**

ASFALTO

Disc diamantat ASFALTO

- *material: asfalt, asfalt pe beton, beton*
- *taiere umeda*



	Diametru exterior	Inaltime segment	Diametru interior	
100.34	350	10	25,4	**1047,87**
100.955	400	10	25,4	**1263,61**
100.88	450	10	25,4	**1491,67**

HORMIGON CURADO

Disc diamantat HORMIGON CURADO

- *concetratia ridicata de carbon tungsten din segmente imbunatatesc performanta si durabilitatea la taierea materialelor cu abrazivitate crescuta*
- *material: beton, beton armat*
- *taiere umeda*



	Diametru exterior	Inaltime segment	Diametru interior	
100.847	300	10	25,4	**792,07**
100.936	350	10	25,4	**890,69**
100.961	400	10	25,4	**1086,39**



SCULE ELECTRICE

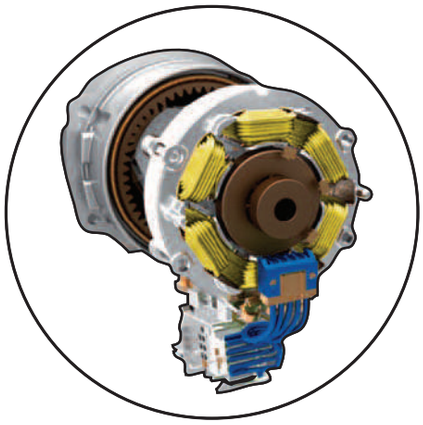
Masini de gaurit electrice cu si fara acumulator - Ciocane electropneumatice - Polizoare unghiulare - Fierastraie electrice - Utilaje pentru constructii - Masini pentru prelucrarea lemnului -
Discuri diamantate - Aparate de sudura

Stayer este un producator de surubelnite electrice, masini de gaurit electrice cu si fara acumulator, ciocane electropneumatice, polizoare unghiulare, fierastraie electrice, utilaje pentru constructii, masini prelucrarea lemnului. Producatorul ofera o gama foarte variata de accesorii si consumabile. Calitatea Stayer se gaseste si in oferta de discuri diamantate, discuri abrazive si panze circulare placate CMS.

STAYER

MOTOR PUTERNIC FARA PERII

MARESTE DURATA DE FUNCTIONARE A ACUMULATORULUI CU **50%**



U V W M 3~ MOTOR PUTERNIC FARA PERII PENTRU **UTILIZARE INTENSIVA**

MAI EFICIENTA **32%**

DURATA DE VIATA MOTOR MAI MARE DE **10 ORI**

CONTROL PERFECT **100%**



Scule electrice cu acumulator	462
Masini de insurubat si gaurit	463
Ciocane rotopercutoare	464
Amestecatoare	466
Suflante aer cald	467
Slefuitoare pentru perete	468
Polizoare unghiulare	468
Masini pentru caneluri	470
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Fierastraie circulare de mana	472
Masini de slefuit	473
Fierastraie pendulare	474
Slefuitoare pentru lemn	475
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Aspiratoare	477
Fierastraie de banc	478
Polizoare de banc	480
Pistoale de vopsit	481
Masini de spalat cu presiune	482
Aparate de sudura	483
Masti sudura	487

BL 50 CK

Masina gaurit/insurubat cu acumulator 3,6 V Li-Ion

AVATAJELE PRODUSULUI
- *lumina cu LED pentru zona de lucru*
- *indicator cu LED pentru semnalizarea incarcarii bateriei*
- *compacta*
- *Reversibila*
- *cap pivotant cu doua pozitii de lucru*
- *culpu reglabil in 7 trepte*

DOTAREA STANDARD
- *1 incarcator*
- *1 baterie de 3,6 V Li-ion*
- *set de 44 biti*
- *cutie de transport anti-soc din PVC*



	Tensiune acumulator	Ambalare	
1.2082	3,6 V	1	**261,97**
	Tensiune acumulator Li-ion	3,6 V	
	Capacitate acumulator	1,3 Ah	
	Turatii in gol: treapta1 / treapta 2	0 - 200 rpm	
	Timp de incarcare acumulator	180 min	
	Diametrul maxim al surubului	Φ 8 mm	
	Moment mic-mare	5 Nm	
	Reglarea momentului	7 pozitii	
	Greutate	0,3 kg	

PBL 1422 PK

Masina gaurit/insurubat cu acumulator 14,4 V Li-Ion

2 trepte mecanice

AVATAJELE PRODUSULUI
- *lumina cu LED pentru zona de lucru*
- *indicator cu LED pentru semnalizarea incarcarii bateriei*
- *reversibila si electronica*
- *mandrina rapida*
- *maner ergonomic*

DOTAREA STANDARD
- *1 incarcator*
- *2 acumulatori 14,4 V Li-ion*
- *cutie transport*



	Tensiune acumulator	Ambalare	
1.2106	14,4 V	1	**1078.69**
	Tensiune acumulator Li-ion	14,4 V	
	Capacitate acumulator	2,0 Ah	
	Turatii in gol: treapta1 / treapta 2	0-6000 / 0-2100 rpm	
	Timp de incarcare acumulator	60 min	
	Capacitate mandrina	Φ 2.0-13,0 mm	
	Prindere mandrina	1/2"x20	
	Capacitate gaurire lemn	Φ 40 mm	
	Capacitate gaurire otel	Φ 18 mm	
	Diametru maxim surub	Φ 16 mm	
	Moment cuplu	35 Nm	
	Reglarea momentului	16+1+1+1 pozitii	
	Greutate	1,2 kg	

PBL 2184 PK / 4.0 Ah

Masina gaurit/insurubat cu acumulator 18 V Li-Ion

2 trepte mecanice

AVATAJELE PRODUSULUI
- *lumina cu LED pentru zona de lucru*
- *indicator cu LED pentru semnalizarea incarcarii bateriei*
- *reversibila si electronica*
- *mandrina rapida*
- *maner ergonomic*

DOTAREA STANDARD
- *1 incarcator*
- *2 acumulatori 18 V Li-ion*
- *cutie transport*



PERCUTIE
mecanica

	Tensiune acumulator	Ambalare	
1.1524	18 V	1	**2080,33**
	Tensiune acumulator Li-ion	18 V	
	Capacitate acumulator	4,0 Ah	
	Turatii in gol: treapta1 / treapta 2	0-350 / 0-1200 rpm	
	Percutii	0-19200 bpm	
	Timp de incarcare acumulator	60 min	
	Capacitate mandrina	Φ 1,5-13 mm	
	Prindere mandrina	1/2"x20	
	Capacitate gaurire lemn	Φ 30 mm	
	Capacitate gaurire otel	Φ14 mm	
	Diametru maxim surub	Φ 15 mm	
	Moment cuplu	35 Nm	
	Reglarea momentului	16+2 pozitii	
	Greutate	1,6 kg	

Legenda

- Lumina de ghidare laser
- Aparatoare de protectie cu inchidere rapida
- Percutie
- Heavy Duty
- Vario Lock: pentru adaptarea pozitiei daltii
- Reversibil
- Ciocan cu 3 functii
- Ciocan cu 2 functii
- Suflanta turbo
- Port-scula SDS-max
- Tehnologie Li-Ion
- Geanta plastic pentru transport
- Control electronic
- Tehnologie de absorbtie vibratii
- Pornire lina
- Panza oscilanta
- Port-scula SDS-plus

12.582

Incarcator 14,4 V - 2,0 Ah

• *pentru PBL 1422 PK*



STAYER

	Tensiune acumulator	Ambalare	
12.582	14,4 V	1	**246.56**

12.583

Acumulator 14,4 V - 2,0 Ah

• *pentru PBL 1422 PK*



STAYER

	Tensiune acumulator	Ambalare	
12.583	14,4 V	1	**423.77**

12.530

Incarcator 18 V - 4,0 Ah

• *pentru PBL 2184 PK / L18 Series*



STAYER

	Tensiune acumulator	Ambalare	
12.530	18 V	1	**439.18**

12.531

Acumulator 18 V - 4,0 Ah

• *pentru PBL 2184 PK / L18 Series*



STAYER

	Tensiune acumulator	Ambalare	
12.531	18 V	1	**847.54**

12.547

Acumulator 18 V - 2,0 Ah

• *pentru PBL 2182 PK / L18 Series*



STAYER

	Tensiune acumulator	Ambalare	
12.547	18 V	1	**462.30**

384 B

Masina de insurubat pentru gips carton 600 W

AVANTAJELE PRODUSULUI

• *reversibila*
• *sistem de reglare electronic*

Surubelnita electronica 384 B cu reglare de adancime
Posibilitatea de reglare a adancimii din exterior mentinerea momentului stabil si fac ca aceasta masina electrica sa fie usor de folosit. Aceasta surubelnita este special proiectata pentru lucrul cu suruburi autofiletante si este ideala pentru rigips si placaje.
Aplicatiile la care se foloseste surubelnita electrica sunt in special cele care presupun insurubarea in suprafete fragile



STAYER

	Putere motor	Ambalare	
1.6008	600 W	1	**647,21**

Putere	600 W
Turatii in gol: treapta1 / treapta 2	0-4.500 rpm
Capacitate insurubare autofiletante	Φ 6,3 mm
Capacitate insurubare metrice	M 8
Prindere hexagonala	1/4"
Greutate	1,8 kg

SG 43 B

Suport universal pentru masini de gaurit

• *guler : 43 mm*
• *cursa: 68 mm*
• *inclinare: 0-90º*
• *greutate: 6,5 kg*



STAYER

	Cursa	Ambalare	
12.517	68 mm	1	**323.61**

TM 750 AK

Masina de gaurit cu percutie 750 W

AVANTAJELE PRODUSULUI
- *reversibila*
- *control electronic al turatiei*
- *percutie*

DOTAREA STANDARD
- *mandrina rapida 13 mm*
- *maner lateral cu limitator adancime*
- *cutie plastic pentru transport*



STAYER

	Putere motor	Ambalare	
1.5449	750 W	1	493,11

Putere motor	750 W
Turatii in gol	0-3000 rpm
Percutii	0-45000 bpm
Capacitate mandrina	1,5-13 mm
Prindere mandrina	1/2"x20 UNF
Capacitate gaurire lemn	Φ 25 mm
Capacitate gaurire otel	Φ 13 mm
Capacitate gaurire zidarie	Φ 20 mm
Greutate	2,3 kg

TM 1100

Masina de gaurit cu percutie 1100 W

AVANTAJELE PRODUSULUI
- *2 viteze mecanice, cutie de viteze din aluminiu.*
- *reversibila*
- *percutie.*
- *controlul electronic al vitezei.*
- *maner ergonomic*

DOTAREA STANDARD
- *mandrina cu cheie 16 mm*
- *maner lateral cu limitator adancime*



STAYER

	Putere motor	Ambalare	
1.1735	1100 W	1	1001,64

Putere motor	1100 W
Turatii in gol	0-900 / 0-2500 rpm
Percutii	0-14400 / 0-40000 bpm
Capacitate mandrina	2,5-16 mm
Prindere mandrina	5/8"x16 UNF
Capacitate gaurire lemn	Φ 40 mm
Capacitate gaurire otel	Φ 16 mm
Capacitate gaurire zidarie	Φ 16 mm
Greutate	3,5 kg

TM 950 AK (IKF)

Masina de gaurit cu percutie 950 W
2 trepte mecanice

AVANTAJELE PRODUSULUI
- *reversibila*
- *control electronic al turatiei*
- *percutie*
- *maner ergonomic*
- *cutie de viteze din aluminiu*

DOTAREA STANDARD
- *mandrina rapida 13 mm*
- *maner lateral cu limitator adancime*
- *cutie plastic pentru transport*



STAYER

	Putere motor	Ambalare	
1.1737	950 W	1	970,82

Putere motor	950 W
Turatii in gol	0-1000 / 0-3000 rpm
Percutii	0-16000 / 0-48000 bpm
Capacitate mandrina	1,5-13 mm
Prindere mandrina	1/2"x20 UNF
Capacitate gaurire lemn	Φ 30 mm
Capacitate gaurire otel	Φ 13 mm
Capacitate gaurire zidarie	Φ 16 mm
Greutate	3,0 kg

HD 26 BK

Ciocan rotopercutor SDS PLUS 800 W 2,8 J

AVANTAJELE PRODUSULUI
- *2 functii:*
  - *rotatie*
  - *rotatie / percutie*
  - *daltuire*
- *cuplaj SDS-Plus*
- *potrivit pentru gaurire in beton si piatra 4-26 mm (optim 4-12 mm)*
- *reversibil*
- *control electronic al turatiei*
- *ambreiaj de siguranta*

DOTAREA STANDARD
- *colector praf*
- *maner lateral cu limitator de adancime*
- *cutie din plastic pentru transport*



STAYER

	Putere motor	Ambalare	
1.1746	800 W	1	924.59

Putere motor	800 W
Turatii in gol	0-1200 rpm
Percutii	0-5300 bpm
Energie de impact	2,8 J
Port-scula	SDS-Plus
Capacitate gaurire lemn	Φ 30 mm
Capacitate gaurire otel	Φ 13 mm
Capacitate gaurire ciment si zidarie	Φ 26 mm
Capacitate gaurire cu carota	Φ 68 mm
Greutate	2,8 kg

TD 800 K

Ciocan rotopercutor SDS PLUS 800 W 2,5 J

AVANTAJELE PRODUSULUI
- *3 functii:*
  - *ciocan rotopercutor*
  - *gaurire de pecizie la viteza mica*
  - *gaurire de precizie la viteza mare*
- *cuplaj SDS-Plus si cilindrica*
- *2 trepte mecanice de viteza*
- *reversibil*
- *control electronic al turatiei*
- *ambreiaj de siguranta*

DOTAREA STANDARD
- *mandrina cu cheie 13 mm*
- *colector praf*
- *maner lateral cu limitator de adancime*
- *cutie din plastic pentru transport*

1. Ciocan rotopercutor:
Electro-pneumatice cu energie de impact mare.
Gaurire rapida in beton, piatra sau caramida.

2. Optiunea 1: Masina de gaurit (viteza mica 0-1100 rpm):
Pentru lucrari de precizie in materiale dure, fragile si cu diametru mare gaurire.
- Capacitate de gaurire lemn Ø 50 mm.
- Capacitate de gaurire in otel Ø 14 mm.

3. Optiunea 2: Masina de gaurit (viteza mare 0-2200 rpm):
Pentru lucrări de precizie, materiale moi si ductile si diametre de gaurire mici
- Capacitate de gaurire lemn Ø <25 mm.
- Capacitate de gaurire din otel Ø 3-5 mm.
- Capacitate de gaurire din alama Ø 8 mm.
- Capacitate de gaurire din aluminiu Ø <10 mm.



STAYER

	Putere motor	Ambalare	
1.1560	800 W	1	909,18
	Putere motor	800 W	
	Turatii in gol	0-1600 / 0-3000 rpm	
	Percutii	0-5500 bpm	
	Energie de impact	2,5 J	
	Port-scula	pentru burghie cilindrice si SDS-Plus	
	Capacitate gaurire lemn	Φ 30 mm	
	Capacitate gaurire otel	Φ 13 mm	
	Capacitate gaurire zidarie	Φ 20 mm	
	Greutate	2,3 kg	

HD 27 CK

Ciocan rotopercutor SDS PLUS 810 W 2,8 J

AVANTAJELE PRODUSULUI
- *3 functii:*
  - *rotatie*
  - *rotatie / percutie*
  - *daltuire*
- *potrivit pentru gaurire in beton si piatra 4-28 mm (optim 4-12 mm)*
- *reversibil si electronic*
- *Vario-Lock - adaptare pozitie dalta*
- *ambreiaj de siguranta*

DOTAREA STANDARD
- *maner lateral cu limitator de adancime*
- *cutie din plastic pentru transport*



STAYER

	Putere motor	Ambalare	
1.1967	810 W	1	1001,64
	Putere motor	810 W	
	Turatii in gol	0-900 rpm	
	Percutii	0-4250 bpm	
	Energie de impact	2,8 J	
	Port-scula	SDS-Plus	
	Capacitate gaurire lemn	Φ 35 mm	
	Capacitate gaurire otel	Φ 16 mm	
	Capacitate gaurire ciment si zidarie	Φ 28 mm	
	Capacitate gaurire cu carota	pana la Φ 68 mm	
	Greutate	2,8 kg	

HD 5 CK

Ciocan rotopercutor SDS PLUS 950 W 5,0 J

AVANTAJELE PRODUSULUI
- *3 functii:*
  - *rotatie*
  - *rotatie / percutie*
  - *daltuire*
- *potrivit pentru gaurire in beton si piatra 8-30 mm (optim 10-20 mm)*
- *reversibil si electronic*
- *Vario-Lock - adaptare pozitie dalta*
- *ambreiaj de siguranta*

DOTAREA STANDARD
- *maner lateral cu limitator de adancime*
- *cutie din plastic pentru transport*



STAYER

	Putere motor	Ambalare	
1.1562	950 W	1	1078,69
	Putere motor	950 W	
	Turatii in gol	0-850 rpm	
	Percutii	0-4300 bpm	
	Energie de impact	5 J	
	Port-scula	SDS-Plus	
	Capacitate gaurire lemn	Φ 40 mm	
	Capacitate gaurire otel	Φ 16 mm	
	Capacitate gaurire ciment si zidarie	Φ 30 mm	
	Capacitate gaurire cu carota	pana la Φ 68 mm	
	Greutate	5,0 kg	

HD 50 BK

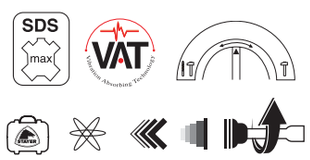
Ciocan rotopercutor SDS MAX 1200 W 4,0-12,0 J

AVANTAJELE PRODUSULUI
- *2 functii:*
  - *rotatie / percutie*
  - *daltuire*
- *comutator electronic cu 6 pozitii*
- *VAT - tehologie de absorbtie a vibratiilor*
- *ambreiaj de siguranta*
- *pornire lina*

DOTAREA STANDARD
- *maner lateral cu limitator de adancime*
- *cutie din plastic pentru transport*







STAYER

	Putere motor	Ambalare	
1.1741	1200 W	1	1849,18
	Putere motor	1200 W	
	Turatii in gol	250-500 rpm	
	Percutii	1560-2800 bpm	
	Energie de impact	4-12 J	
	Port-scula	SDS-MAX	
	Capacitate gaurire ciment si zidarie	Φ 45 mm	
	Capacitate gaurire cu carota	Φ 120 mm	
	Lungime dalta	260-600 mm	
	Greutate	8,0 kg	

MD 15 K

Ciocan demolator 1750 W HEX 30

AVANTAJELE PRODUSULUI
- *sistem electro-pneumatic pentru inalte performante de demolare*
- *compact si aerodinamic pentru acces rapid in spatii reduse*
- *VAT - tehologie de absorbtie a vibratiilor*
- *maner lateral pentru confort crescut in timpul aplicatiilor de lunga durata*

DOTAREA STANDARD
- *dalta ascutita*
- *dalta lata*
- *troller din plastic pentru transport*



STAYER

	Putere motor	Ambalare	
1.1449	1750 W	1	3544,26
	Putere motor	1750 W	
	Percutii	1380 bpm	
	Energie de impact	45 J	
	Port-scula	HEX 30 mm	
	Greutate	15,0 kg	

M 1200 C

Amestecator 1200 W

AVANTAJELE PRODUSULUI
- *motor puternic S1 pentru utilizare continua*
- *6 trepte de control electronic al cuplului*
- *maner ergonomic*
- *corp din aluminiu, robust si usor*
- *2 trepte de viteza pentru cuplu maxim*

DOTAREA STANDARD
- *1 paleta H2 Ø 160 mm*
- *1 paleta H3 Ø 140 mm*
- *cutie transport*



STAYER

	Putere motor	Ambalare	
1.1474	1200 W	1	878,36
	Putere motor	1200 W	
	Turatie in gol	200-400 / 350-700 rpm	
	Filet	M 14	
	Paleta	Φ 120 mm	
	Moment cuplu	20,5 Nm	
	Greutate	4,8 kg	

12.445

Paleta H2 Ø 100 mm

- *pentru vopsea, fluide, materiale vascoase*
- *amesteca de jos in sus*



STAYER

	Dimensiune	Ambalare	
12.445	Ø100 mm	1	49,06

12.233

Paleta H3 Ø 140 mm

- *pentru materiale dense cu vascozitate scazuta*
- *amesteca de jos in sus si penetreaza materialul*



STAYER

	Dimensiune	Ambalare	
12.233	Ø140 mm	1	113,61

DM 1450

Amestecator 1450 W

AVANTAJELE PRODUSULUI
- *motor puternic S1 pentru utilizare continua*
- *6 trepte de control electronic al cuplului*
- *maner ergonomic*
- *corp din aluminiu, robust si usor*
- *2 trepte de viteza pentru cuplu maxim*

DOTAREA STANDARD
- *1 agitator MK3/M18-600mm*
Ø 140 mm (exterior)
Ø 114 mm (interior)
- *cutie transport*



STAYER

	Putere motor	Ambalare	
1.1548	1450 W	1	**1263,61**
	Putere motor	1450 W	
	Turatie in gol	260-450 / 350-610 rpm	
	Filet	M 18	
	Paleta	Φ 140 mm / Φ 114 mm	
	Lungime agitator	600 mm	
	Greutate	5,0 kg	

12.537

Paleta MK3 Ø 140 mm (ext.) / Ø 114 mm (int.)

- *viteza mare de amestecare*
- *cuplaj M18*
- *lungime 600*



STAYER

	Dimensiune	Ambalare	
12.537	Ø140/114 mm	1	**162,66**

SU 650 EDK

Suflanta aer cald 50-650ºC

AVANTAJELE PRODUSULUI
- *ideala pentru uscare, inlaturare lac, indoire plastic, indepartarea hartiei adezive*
- *2 viteze*
- *electronica*
- *temperatura variabila*
- *debit variabil de aer*
- *display digital LED*

DOTAREA STANDARD
- *set complet de accesorii*
- *cutie din plastic pentru transport*



STAYER

	Putere motor	Ambalare	
1.834	2000 W	1	**539,34**
	Putere motor	2000 W	
	Debit aer	250-500 l/min	
	Temperatura	50-650ºC	
	Greutate	0,9 kg	

LP 700 E - Accesorii

Set 5 panze abrazive pentru slefuitor pereti Ø225 mm





STAYER

	Dimensiune	Granulatie	Ambalare	
220.163	Φ 225 mm	gr. 24/60/100/240	5	**43,89**
12.470	Φ 225 mm	gr. 24	5	**54,22**
12.467	Φ 225 mm	gr. 60	5	**43,89**
12.468	Φ 225 mmΦ	gr. 100	5	**43,89**
12.469	225 mm	gr. 220	5	**43,89**

LP 700 E

Slefuitor pentru pereti si tavan Ø225 mm, 710 W

AVANTAJELE PRODUSULUI
- *motor S1 puternic 710 W cu schimbare externa a periei si de reglare continua*
- *controler electronic cu 6 pozitii*
- *sistem exhaustare integrat*
- *eficient si ergonomic*
- *confort maxim*
- *doua pozitii: tavan / perete*
- *disc slefuire cu prindere Velcro*
- *structura duraluminiu: usoara si robusta*

DOTAREA STANDARD
- *maner auxiliar suplimentar reglabil pe inaltime*
- *5 foi abrazive de diferite granulatii (1xGR.60, 1xGR.80, 1xGR.100, 1xGR.180 si 1xGR.240)*
- *tub de aspiratie de 4 m*
- *racord de aspirare Ø 45 mm*
- *placa cu prindere Velcro*
- *geanta textila cu fermoar pentru transport*



	Putere motor	Ambalare	
1.1450	710 W	1	**1525,57**
	Putere motor	710 W	
	Turatii in gol	800-1700 rpm	
	Diametru foaie abraziva	Φ 225 mm	
	Inaltime de lucru	1600 mm	
	Unghi de pivotare cap	0-90°	
	Racord exhaustare	Φ 45 mm	
	Furtun	4 m	
	Greutate	4,3 kg	

SAB 800 CR

Polizor unghiular Ø115 mm, 800 W

AVANTAJELE PRODUSULUI
- *compact si bine echilibrat*
- *maner lateral cu 2 pozitii*
- *rulmenti de inlata calitate*

DOTAREA STANDARD
- *aparatoare de protectie*
- *maner lateral*
- *flansa si piulita de prindere*
- *cheie speciala pentru schimbat disc*
- *discul abraziv nu este inclus*



STAYER

	Putere motor	Ambalare	
1.1939	800 W	1	**400.66**
	Putere motor	800 W	
	Turatii in gol	11000 rpm	
	Diametru disc abraziv	Φ 115 mm	
	Filet	M 14	
	Greutate	1,7 kg	

SAB 1301 E

Polizor unghiular Ø125 mm, 1200 W

AVANTAJELE PRODUSULUI
- *echipat cu variator de viteza cu 6 pozitii pentru diferite aplicatii*
- *cap cu dimensiuni reduse pentru zone restranse*
- *schimbarea rapida a periilor fara demontarea masinii*

DOTAREA STANDARD
- *aparatoare de protectie*
- *maner lateral cu 3 pozitii*
- *flansa si piulita de prindere*
- *cheie speciala pentru schimbat disc*



STAYER

	Putere motor	Ambalare	
1.936	1200 W	1	**647,21**
	Putere motor	1200 W	
	Turatii in gol	2800-11000 rpm	
	Diametru disc abraziv	Φ 125 mm	
	Filet	M 14	
	Greutate	1,9 kg	

SAB 1601 CS

Polizor unghiular Ø125 mm, 1400 W

AVANTAJELE PRODUSULUI
- *echipat cu variator de viteza*
- *cap cu dimensiuni reduse pentru zone restranse*
- *schimbarea rapida a periilor fara demontarea masinii*

DOTAREA STANDARD
- *aparatoare de protectie*
- *maner lateral cu 3 pozitii*
- *flansa si piulita de prindere*
- *cheie speciala pentru schimbat disc*



STAYER

	Putere motor	Ambalare	
1.1970	1400 W	1	**724,26**
	Putere motor	1400 W	
	Turatii in gol	0-10500 rpm	
	Diametru disc abraziv	Φ 125 mm	
	Filet	M 14	
	Greutate	2,3 kg	

SD 27 CE

Polizor drept Ø25 mm, 650 W

AVANTAJELE PRODUSULUI
- *electronic*
- *se poate utiliza pentru materiale dure sau moi si pentru plastic, datorita controlului electronic al turatiei.*
- *bucsa elastica de fixare precisa pentru un finisaj perfect*

DOTAREA STANDARD
- *1 bucsa elastica de fixare 6 mm*



STAYER

	Putere motor	Ambalare	
1.1705	650 W	1	**647,21**
	Putere motor	650 W	
	Turatii in gol	7000-28000 rpm	
	Diametru maxim disc	Φ 25 mm	
	Diametru bucsa	Φ 6 mm	
	Greutate	1,7 kg	

SAB 1011 B

Polizor unghiular Ø125 mm, 1000 W

AVANTAJELE PRODUSULUI
- *cap cu dimensiuni reduse pentru zone restranse*
- *maner lateral cu 3 pozitii*
- *schimbarea rapida a periilor fara demontarea masinii*

DOTAREA STANDARD
- *aparatoare de protectie*
- *maner lateral cu 3 pozitii*
- *flansa si piulita de prindere*
- *cheie speciala pentru schimbat disc*



	Putere motor	Ambalare	
1.1640	1000 W	1	**431,48**

Putere motor	1000 W
Turatii in gol	10500 rpm
Diametru disc abraziv	Φ 125 mm
Filet	M 14
Greutate	1,8 kg

SAB 26-23 AL

Polizor unghiular Ø230 mm, 2600 W

AVANTAJELE PRODUSULUI
- *usor si versatil*
- *utilizabil in mod special in ateliere*
- *AL - soft start*
- *special proiectat pentru constructii*

DOTAREA STANDARD
- *aparatoare de protectie*
- *maner lateral cu 3 pozitii*
- *flansa si piulita de prindere*
- *cheie speciala pentru schimbat disc*



	Putere motor	Ambalare	
1.1689	2600 W	1	**1094,10**

Putere motor	2600 W
Turatii in gol	6500 rpm
Diametru disc abraziv	Φ 230 mm
Filet	M 14
Greutate	4,8 kg

AGR 24-23 C AL

Polizor unghiular Ø230 mm, 2400 W

AVANTAJELE PRODUSULUI
- *motor puternic S1 2400 W.*
- *usor si versatil*
- *transmisie sinterizata.*
- *inlocuire usoara a periilor de carbon.*
- *AL - pornire lina*
- *proiectat special pentru constructii*

DOTAREA STANDARD
- *aparatoare de protectie*
- *maner lateral cu 3 pozitii*
- *flansa si piulita de prindere*
- *cheie speciala pentru schimbat disc*



	Putere motor	Ambalare	
1.1816	2400 W	1	**1017,05**

Putere motor	2400 W
Turatii in gol	6500 rpm
Diametru disc abraziv	Φ 230 mm
Filet	M 14
Greutate	4,4 kg

AGR 21-230

Polizor unghiular Ø230 mm, 2100 W

AVANTAJELE PRODUSULUI
- *usor si versatil*
- *utilizabil in mod special in ateliere*
- *AL - soft start*
- *special proiectat pentru constructii*

DOTAREA STANDARD
- *aparatoare de protectie*
- *maner lateral cu 3 pozitii*
- *flansa si piulita de prindere*
- *cheie speciala pentru schimbat disc*



	Putere motor	Ambalare	
1.1771	2100 W	1	**785,90**

Putere motor	2100 W
Turatii in gol	6500 rpm
Diametru disc abraziv	Φ 230 mm
Filet	M 14
Greutate	4,2 kg

BA 115

Stand pentru polizoare unghiulare Ø115 mm

- *pentru polizoare unghiualre Ø115 mm*



	Dimensiune	Ambalare	
12.300	115 mm	1	**175,57**

BA 230

Stand pentru polizoare unghiulare Ø230 mm

- *pentru polizoare unghiualre Ø230 mm*



	Dimensiune	Ambalare	
12.301	230 mm	1	**330,49**

12.465

Sanie de ghidare cu racord de aspirare pentru polizoare unghiulare Ø125 mm

AVANTAJELE PRODUSULUI
- *ideal pentru aplicatii in constructii*
- *potrivit pentru SAB 780/781/900/901R*
- *prindere Ø46-48 mm*



STAYER

	Dimensiune	Ambalare	
12.465	125 mm	1	**175,57**

Accesorii polizoare unghiulare

Panza circulara neplacata pentru lemn

- *utilizare pe polizoare unghiualre*



STAYER

	Dimensiune	Nr. dinti	Ambalare	
2.196	Φ 115x22.2 mm	Z4	1	**33,57**
2.197	Φ 125x22.2 mm	Z4	1	**38,73**
2.198	Φ 230x22.2 mm	Z4	1	**64,55**

CD 125

Masina pentru caneluri Ø125 mm, 1500 W

AVANTAJELE PRODUSULUI
- *usoara si precisa*
- *racord exhaustare*
- *schimbarea periilor se realizeaza fara demontarea masinii*

DOTAREA STANDARD
- *2 discuri diamantate Φ 125 mm*
- *cheie service*
- *maner lateral*
- *cutie pentru transport*



STAYER

	Putere motor	Ambalare	
1.1254	1500 W	1	**1540,98**
	Putere motor	1500 W	
	Turatii in gol	8500 rpm	
	Diametru disc	Φ 125 mm	
	Latime de taiere	8-30 mm	
	Adancime de taiere	5-26 mm	
	Greutate	5,0 kg	

CD 180 K

Masina pentru caneluri Ø180 mm, 1800 W

AVANTAJELE PRODUSULUI
- *posibilitatea conectarii aspiratorului*
- *constructie robusta*
- *putere mare*
- *schimbarea periilor din exterior*
- *discuri Turbo Plus ranforsate*
- *constructie cu laser LD*

DOTAREA STANDARD
- *discuri diamantate ø 180 mm*
- *cheie hexagonala M 10*
- *maner lateral*
- *cutie de transport anti-soc din PVC*



STAYER

	Putere motor	Ambalare	
1.6007	1800 W	1	**3513,44**
	Putere motor	1800 W	
	Turatii in gol	4100 rpm	
	Diametru disc	Φ 150-180 mm	
	Latime de taiere	9-51 mm	
	Adancime de taiere	15-54 mm	
	Greutate	7,7 kg	

MULTI TOOL PRO 300

Masina multifunctionala 300 W

AVANTAJELE PRODUSULUI
- *control electronic pentru aplicatii in orice material.*
- *furtun de exhaustare pentru utilizare usoara*

DOTAREA STANDARD
- *placa delta*
- *set foi abrazive delta*
- *panza fierastrau semicirculara pentru lemn, plastic si gips-carton*
- *panza fierastrau dreapta pentru lemn, plastic si gips-carton*
- *spatula*
- *geanta de transport din material plastic*





STAYER

	Putere motor	Ambalare	
1.1567	300 W	1	**585,87**
	Putere motor	300 W	
	Turatii in gol	15000-23000 rpm	
	Oscilatii	3,2 mm	
	Greutate	1,5 kg	

12.548 - MULTI TOOL PRO 300 Accesorii

Panza dreapta HCS

- *pentru lemn, plastic, gips-carton*
- *dimensiuni: 32x40x90 mm*



	Dimensiune	Ambalare	
12.548	32x40x90 mm	1	30,98

12.549 - MULTI TOOL PRO 300 Accesorii

Panza dreapta Bi-Metal

- *pentru metal*
- *dimensiuni: 32x40x90 mm*



	Dimensiune	Ambalare	
12.549	32x40x90 mm	1	41,31

12.553 - MULTI TOOL PRO 300 Accesorii

Panza diamantata dreapta

- *pentru placi ceramice, materiale dure*
- *dimensiuni: 20x34x80 mm*



	Dimensiune	Ambalare	
12.553	20x34x80 mm	1	72,30

12.550 - MULTI TOOL PRO 300 Accesorii

Panza semicirculara HCS

- *pentru lemn, plastic, gips-carton*
- *dimensiuni: Ø 88 mm*



	Dimensiune	Ambalare	
12.550	Φ 88 mm	1	61,97

12.551 - MULTI TOOL PRO 300 Accesorii

Panza semicirculara Bi-Metal

- *pentru metal*
- *dimensiuni: Ø 88 mm*

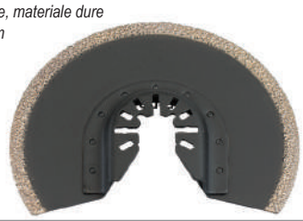


	Dimensiune	Ambalare	
12.551	Φ 88 mm	1	82,62

12.554 - MULTI TOOL PRO 300 Accesorii

Panza semicirculara diamantata

- *pentru placi ceramice, materiale dure*
- *dimensiuni: Ø 88 mm*



	Dimensiune	Ambalare	
12.554	Φ 88 mm	1	113,61

12.552 - MULTI TOOL PRO 300 Accesorii

Razuitor

- *pentru inlaturat vopsea, resturi tapet etc.*
- *dimensiuni: 52x50x95 mm*



	Dimensiune	Ambalare	
12.552	52x50x95 mm	1	41,31

12.555 - MULTI TOOL PRO 300 Accesorii

Razuitor

- *pentru inlaturat ciment, mortar*
- *dimensiuni: 78x78x78 mm*



	Dimensiune	Ambalare	
12.555	78x78x78 mm	1	87,79

12.556 - MULTI TOOL PRO 300 Accesorii

Set 10 foi abrazive de slefuit

- *granulatii: gr. 40 / 60 / 80 / 120*
- *dimensiuni: 93x93x93 mm*



	Dimensiune	Ambalare	
12.556	93x93x93 mm	1	25,82

12.557 - MULTI TOOL PRO 300 Accesorii

Placa Delta

- *dimensiuni: 93x93x93 mm*



	Dimensiune	Ambalare	
12.557	93x93x93 mm	1	41,31

12.558 - MULTI TOOL PRO 300 Accesorii

Set 4 accesorii MULTI TOOL PRO 300

• panza semicirculara diamantata, panza dreapta diamantata, razuitor pentru ciment si mortar, razuitor vopsea



STAYER

	Dimensiune	Ambalare	
12.558	-	1	232,38

12.559 - MULTI TOOL PRO 300 Accesorii

Set 4 accesorii MULTI TOOL PRO 300

• panza semicirculara HCS, panza dreapta HCS / Bi-Metal, si razuitor vopsea



STAYER

	Dimensiune	Ambalare	
12.559	-	1	149,75

CP 190 C

Fierastrau circular lemn Ø190 mm, 1600 W

AVANTAJELE PRODUSULUI
- *puternic*
- *capacitate mare de taiere*

DOTAREA STANDARD
- *panza circulara placata 190x30 Z24*
- *racord exhaustor*
- *ghidaj lateral*



STAYER

	Putere motor	Ambalare	
1.1543	1600 W	1	847,54
	Putere motor	1600 W	
	Turatii in gol	5000 rpm	
	Panza circulara	Φ 190x30 mm Z 24	
	Taieri inclinate	0-45°	
	Capacitate de taiere la 45° / 90°	43 mm / 66 mm	
	Greutate	4,0 kg	

CP 236

Fierastrau circular lemn Ø235 mm, 2000 W

AVANTAJELE PRODUSULUI
- *puternic*
- *capacitate mare de taiere*

DOTAREA STANDARD
- *panza circulara placata 190x30 Z24*
- *racord exhaustor*
- *ghidaj lateral*



STAYER

	Putere motor	Ambalare	
1.5916	2000 W	1	1309,84
	Putere motor	2000 W	
	Turatii in gol	4500 rpm	
	Panza circulara	Φ 235x25,4 mm Z 24	
	Taieri inclinate	0-45°	
	Capacitate de taiere la 45° / 90°	58 mm / 85 mm	
	Greutate	7,2 kg	

CPT 3000 E

Fierastrau circular lemn Ø185 mm, 1400 W

AVANTAJELE PRODUSULUI
- *viteza constanta*
- *unitate de viteza variabila.*
- *pregatit pentru aspiratie.*
- *ghidaj de taiere din aluminiu.*
- *ideal pentru taieri in diferite tipuri de materiale: lemn, aluminiu si metal*

DOTAREA STANDARD
- *panza placata CMS Z-48*
- *ghidaj de taiere din aluminiu. (3 segmente de 1 m din aluminiu)*
- *cuplaj pentru extragerea prafului.*
- *cheie de service.*



STAYER

	Putere motor	Ambalare	
1.1726	1400 W	1	3236,07
	Putere motor	1400 W	
	Turatie mers in gol	2000-5000 rpm	
	Disc	Φ 185 x 20 mm Z 48	
	Taieri inclinate	0-45°	
	Capacitate taiere la 45°	47 mm	
	Capacitate taiere la 90°	67 mm	
	Capacitate taiere 45° cu ghidaj	44 mm	
	Capacitate taiere 90° cu ghidaj	62 mm	
	Unghi de taiere	0-48°	
	Greutate	5,5 kg	

CP 125

Fierastrau circular marmura Ø110 mm, 1400 W

AVANTAJELE PRODUSULUI
- *usor si precis*
- *pentru discuri 110, 115 si 125 mm*

DOTAREA STANDARD
- *disc diamantat granit 125x20 mm*



STAYER

	Putere motor	Ambalare	
1.1565	1400 W	1	**693,44**

Putere motor	1400 W
Turatii in gol	12000 rpm
Panza circulara	Φ 110-125 x 20 mm
Capacitate de taiere la 45° / 90°	22 mm / 34 mm
Greutate	5,0 kg

LU 260 CE

Masina de polisat Ø180 mm, 1200 W

AVANTAJELE PRODUSULUI
- *control electronic cu 6 viteze*
- *ideal pentru slefuire si lustruire metal*
- *buton de blocare a axului*
- *sistem electronic pentru viteza constanta sub sarcina*
- *blocare disc*

DOTAREA STANDARD
- *placa din cauciuc flexibila*
- *maner lateral*
- *pad din lana cu Velcro*



STAYER

	Putere motor	Ambalare	
1.1931	1200 W	1	**801,31**

Putere motor	1200 W
Turatii in gol	900-3000 rpm
Panza circulara	Φ 180 mm
Filet	M 14
Greutate	3,0 kg

LS 1200 B

Masina de slefuit cu tambur Ø120 mm, 1300 W

DOTAREA STANDARD
- *cilindru slefuire*

AVANTAJELE PRODUSULUI
- *pornire lina*
- *control electronic al turatiei*
- *blocarea axului pentru schimbarea rapida a rolelor*
- *buton selectare turatii*
- *preselectia fara trepte a turatiei*



STAYER

	Putere motor	Ambalare	
1.2010	1300 W	1	**1217,38**

Putere motor	1300 W
Turatii in gol	1000-3000 rpm
Diametru cilindru	Φ 100-120 mm
Lungime cilindru	100 mm
Greutate	4,6 kg

CM 230 K

Fierastrau circular metal Ø230 mm, 1700 W

AVANTAJELE PRODUSULUI
- *taie otel, fier, aluminiu, plastic, lemn*
- *taiere uscata la viteza scazuta*
- *pentru taierea panourilor izolante*
- *unghi de inclinare de pana la 45°*
- *placa de baza larga facilitateaza exactitatea taierii*

DOTAREA STANDARD
- *disc pentru taiat metal*
- *ghidaj lateral*
- *maner lateral*
- *cutie de transport anti-soc din PVC*



STAYER

	Putere motor	Ambalare	
1.5977	1700 W	1	**3698,36**

Putere motor	1700 W
Turatii in gol	2600 rpm
Panza circulara	Φ 230x25,4 mm
Taieri inclinate	0-45°
Capacitate de taiere la 45° / 90°	56 mm / 84 mm
Greutate	7,1 kg

LT 1401 EK

Masina de slefuit tevi 40x760 mm, 1400 W

AVANTAJELE PRODUSULUI
- *motor puternic S1 1400 W pentru aplicatii indelungate in conditii grele de lucru*
- *ideal pentru slefuirea tevilor din INOX*
- *manipulare usoara datorita designului ergonomic*
- *arc deschidere de 270 de grade*
- *schimbarea benzilor abrazive se realizeaza fara unelte suplimentare*

DOTAREA STANDARD
- *cutie din aluminiu pentru transport si depozitare*
- *maner suplimentar*
- *9 benzi de slefuire 40x760 mm (3xgr.60, 3xgr.120, 3xgr.240)*
- *cheie de service*



STAYER

	Putere motor	Ambalare	
1.1368	1400 W	1	**1571,80**

Putere motor	1400 W
Turatii in gol	750-3000 rpm
Viteza banda	2,7-8,5 m/s
Dimensiune banda	40x760 mm
Diametru maxim tevi	Φ 180 mm
Greutate	3,7 kg

LS 1200 B - Accesorii

Tamburi de slefuit



	Tip	Ambalare	
8180.150	rola abraziva, granulatie fina	1	**113,61**
8180.151	rola abraziva, granulatie grosiera	1	**113,61**
8180.152	rola lamelara, granulatie mixta	1	**134,26**
8180.153	rola lamelara, granulatie grosiera	1	**134,26**

RO 150 E

Slefuitor rotoorbital Ø150 mm, 450 W

AVANTAJELE PRODUSULUI
- *variator electronic al vitezei pentru lucrul in diverse materiale*
- *unitate exhaustare integrata*
- *maner ergonomic*

DOTAREA STANDARD
- *pad Velcro*
- *maner lateral*
- *sac colectare praf*
- *panza de slefuit*



	Putere motor	Ambalare	
1.638	450 W	1	**585,57**
	Putere motor	450 W	
	Turatii in gol	4000-13000 rpm	
	Orbita	2,5 mm	
	Diametru bucsa	Φ 150 mm	
	Greutate	2,4 kg	

S 90 PE

Fierastrau vertical 750 W

AVANTAJELE PRODUSULUI
- *reglare miscare pendulara in 3 pozitii*
- *ghidaj de sprijin in pozitie joasa pentru taiere precisa*
- *control electronic cu 6 viteze*
- *suflanta de aer in zona de lucru*
- *laser ghidare pentru taiere*
- *racord exhaustare*
- *lama cu schimbare rapida*

DOTAREA STANDARD
- *2 panze pendular*
- *ghidaj lateral*
- *cheie de service.*
- *racord pentru aspirare praf*
- *2 baterii pentru ghidajul cu laser*



	Putere motor	Ambalare	
1.1457	750 W	1	**647,21**
	Putere motor	750 W	
	Turatii in gol	0-3000 rpm	
	Capacitate taiere lemn	80 mm	
	Capacitate taiere otel	8 mm	
	Capacitate taiere plastic	10 mm	
	Reglare taieri inclinate	0-15-30-45°	
	Greutate	2,3 kg	

S 110 PE

Fierastrau vertical 780 W

AVANTAJELE PRODUSULUI
- *dispozitiv pentru suflarea prafului din zona de taiere*
- *indicator cu LASER pentru linia de taiere*
- *electronic*
- *reglarea cursei pendulare in 3 pozitii*
- *ghidaj de sprijin in pozitie joasa pentru taiere precisa*
- *racord pentru aspirator*
- *lama cu schimbare rapida*

DOTAREA STANDARD
- *2 panze pendular*
- *ghidaj lateral*
- *cheie de service.*
- *racord pentru aspirare praf*
- *2 baterii pentru ghidajul cu laser*



	Putere motor	Ambalare	
1.5936	780 W	1	**801,36**
	Putere motor	780 W	
	Turatii in gol	0-3000 rpm	
	Capacitate taiere lemn	110 mm	
	Capacitate taiere otel	8 mm	
	Capacitate taiere plastic	20 mm	
	Greutate	2,9 kg	

SS 280 P

Fierastrau orizontal 1200 W

AVANTAJELE PRODUSULUI
- *motor puternic de 850 W*
- *sistem de schimbare rapida a panzei*
- *maner ergonomic cauciucat*
- *ideal pentru taiat lemn, metal, plastic*

DOTAREA STANDARD
- *2 panze sabie*
- *ghidaj frontal*



	Putere motor	Ambalare	
1.2002	1200 W	1	**770,49**
	Putere motor	1200 W	
	Turatii in gol	800-2800 rpm	
	Cursa panza	28 mm	
	Adancime maxima de taiere	95 mm	
	Capacitate taiere lemn	95 mm	
	Capacitate taiere otel	25 mm	
	Capacitate taiere aluminiu	35 mm	
	Greutate	3,7 kg	

LOM 130 PD

Slefuitor orbital 170 W

AVANTAJELE PRODUSULUI
- *protectie speciala impotriva prafului la unirea placii de baza cu corpul motorului*
- *exhaustare*
- *potrivit pentru orice lucrare de slefuire, chiar si pe materiale umede*

DOTAREA STANDARD
- *3 foi abrazive Velcro*
- *sac colector pentru praf*
- *3 placi de baza: dreptunghiulara, mare, delta*



89x225 mm



85x200 mm



STAYER

	Putere motor	Ambalare	
1.5659	170 W	1	493,11

Putere motor	170 W
Turatii in gol	14000 rpm
Dimensiune pad	85x135/85x200/89x225 mm
Cursa orbitala	2 mm
Greutate	1,2 kg

LOM 185

Slefuitor orbital 200 W

AVANTAJELE PRODUSULUI
- *exhaustare*
- *greutate redusa*
- *maner ergonomic cauciucat*
- *sistem dublu de fixare (velcro si cleme)*

DOTAREA STANDARD
- *1 foaie abraziva*
- *placa Velcro*
- *sac colectare praf*



STAYER

	Putere motor	Ambalare	
1.640	200 W	1	585,57

Putere motor	200 W
Turatii in gol	11000 rpm
Dimensiune pad	90x183 mm
Cursa orbitala	2,5 mm
Greutate	1,6 kg

LEV 120

Slefuitor rotativ 400 W

AVANTAJELE PRODUSULUI
- *exhaustare*
- *permite lustruiri si polisari perfecte*

DOTAREA STANDARD
- *baza suport*
- *foaie abraziva*
- *sac colector pentru praf*



STAYER

	Putere motor	Ambalare	
1.119	400 W	1	970,82

Putere motor	400 W
Turatii in gol	3000 rpm
Diametru placa	Φ 120 mm
Filet	5/8"
Greutate	2,9 kg

LEN 610

Slefuitor cu banda 1200 W

AVANTAJELE PRODUSULUI
- *regulator de turatie in 6 trepte pentru un control mai bun al slefuirii pe diferite suprafete*
- *motor puternic de 900 W pentru utilizare in conditii grele de lucru*
- *maner dublu pentru un control perfect al masinii*
- *sistem de aspiratie propriu*

DOTAREA STANDARD
- *banda abraziva cu granulatia gr.80*
- *racord pentru exhaustare*
- *sac pentru colectarea prafului*



STAYER

	Putere motor	Ambalare	
1.5636	1200 W	1	1109,61

Putere motor	1200 W
Turatii in gol	500 rpm
Dimensiuni banda	100x610 mm
Dimensiune zona slefuire	100x155 mm
Greutate	7,4 kg

P 910

Rindea pentru lemn, 910 W

AVANTAJELE PRODUSULUI
- *maner frontal cu dispozitiv de reglare a adancimii de lucru (0-3 mm)*
- *maner dublu: control perfect al masinii*
- *sistem de aspirare integrat*

DOTAREA STANDARD
- *baza suport*
- *foaie abraziva*
- *sac colector pentru praf*



STAYER

	Putere motor	Ambalare	
1.5565	910 W	1	770,49

Putere motor	910 W
Turatia la functionarea in gol	12.000 rpm
Adancimea de lucru	0-3 mm
Adancime de faltuire	15 mm
Latimea de lucru	82 mm
Lungimea suprafetei de lucru	290 mm
Greutate	2,8 kg

P 910 - Accesorii

Set 2 cutite rindea



STAYER

	Dimensiune	Ambalare	
12.195	82 mm	1	38,73

BJ 120

Freza imbinari tip biscuiti 860 W

AVANTAJELE PRODUSULUI
- *mecanism de ridicare si inclinare facil*
- *ideal pentru imbinarea panourilor*

DOTAREA STANDARD
- *disc TCT*
- *sac colector pentru praf*



STAYER

	Putere motor	Ambalare	
1.1324	860 W	1	**616,39**
	Putere motor	860 W	
	Turatii in gol	11000 rpm	
	Adancime de frezare	0-15 mm	
	Diametru disc	100x22x3,5 mm	
	Unghi frezare	0-90°	
	Reglare verticala placa	45 mm	
	Greutate	3,2 kg	

BJ 120 - Accesorii

Disc TCT pentru freza de imbinari in biscuiti

- *dimensiuni: 100x3,5x22 mm Z6*



STAYER

	Dimensiune	Ambalare	
12.286	100x3,5x22 mm Z6	1	**41,31**

BJ 120 - Accesorii

Set 100 biscuiti



STAYER

	Gr.	Ambalare	
11.2493	Gr. 20	100	**130,13**
11.2494	Gr. 10	100	**130,13**
11.2495	Gr. 0	100	**129,10**

PR 6

Masina de frezat 550 W

AVANTAJELE PRODUSULUI
- *puternica, usoara, usor de folosit*
- *reglare micrometrica a adancimii de frezare*
- *ideala pentru lucrari de frezare si de finisare canturi*

DOTAREA STANDARD
- *ghidaj*
- *indicator adancime frezare*



STAYER

	Putere motor	Ambalare	
1.653	550 W	1	**585,57**
	Putere motor	550 W	
	Turatii in gol	32000 rpm	
	Diametru penseta	Φ 6 mm	
	Adancime de frezare	0-40 mm	
	Greutate	1,8 kg	

PR 10 EK

Masina de frezat 1800 W

AVANTAJELE PRODUSULUI
- *controlul vitezei pentru aplicatii in diferite materiale*
- *AL - Pornire lina*
- *maner auxiliar dublu*
- *reglarea adancimii in mai multe pozitii.*
- *scala gradata pentru reglarea adancimii de frezare (variabila)*
- *racord exhaustare*

DOTAREA STANDARD
- *ghidaj lateral*
- *6 freze cu coada cilindrica*
- *6 pensete (6-6.35-8-10-12-12.7 mm)*
- *cheie de service*
- *adaptor de aspiratie*
- *geanta de transport*



STAYER

	Putere motor	Ambalare	
1.1310	1800 W	1	**1094,10**
	Putere motor	1800 W	
	Turatii in gol	8000-30000 rpm	
	Diametru penseta	Φ 6-6.3-8-10-12-12.7 mm	
	Adancime de frezare	0-60 mm	
	Greutate	4,0 kg	

VAC 2030

Aspirator de atelier 1200 W

AVANTAJELE PRODUSULUI

- *pornire / oprire automata atunci cand scula electrica este operationala continuand 6 sec pentru absorbtia deseurilor*
- *4 secunde intarziere pentru evitarea supratensiuni*
- *umed si uscat*
- *functie de suflanta*

DOTAREA STANDARD

- *tub flexibil*
- *racorduri*
- *tub telescopic*
- *perie 2 pozitii*
- *duza plata*
- *perie rotunda*
- *filtru HEPA*
- *sac deseuri*



STAYER

	Putere motor	Ambalare	
1.1690	1200 W	1	**878,36**

Putere motor	1200 W
Priza de alimentare auxiliara	2000 W
Capacitate suctiune	19 KPA
Capacitate rezervor	30 l
Diametru tub suctiune	Φ 38 mm
Lungime tub flexibil	1,5 m
Lungime tub telescopic	48-80 cm
Greutate	11 kg

VAC 2050 C

Aspirator de atelier 1200 W

AVANTAJELE PRODUSULUI

- *Pornit/Oprit automatic cand aparatul functioneaza, continuand cu 8 sec*
- *absorbtia reziduurilor.*
- *umed si uscat.*

DOTAREA STANDARD

- *tub flexibil 1,90 m*
- *racorduri*
- *tub telescopic*
- *perie 2 pozitii*
- *duza plata*
- *perie rotunda*
- *filtru HEPA*
- *4 roti*
- *sac reziduuri*



STAYER

	Putere motor	Ambalare	
1.1198	1200 W	1	**1386,89**

Putere motor	1200 W
Priza de alimentare auxiliara	2000 W
Capacitate suctiune	17 KPA
Capacitate rezervor	50 l
Diametru tub suctiune	Φ 38 mm
Lungime tub flexibil	1,9 m
Lungime tub telescopic	40-80 cm
Greutate	11 kg

VAC 70 B

Exhaustor 750 W

AVANTAJELE PRODUSULUI

- *motor puternic prin inductie 1 CP*
- *aspira eficient rumegusul, prelungind durata de viata a masinii*

DOTAREA STANDARD

- *furtun flexibil 2 m*
- *2 saci*



STAYER

	Putere motor	Ambalare	
1.1140	750 W	1	**2465,57**

Putere motor	750 W
Capacitate sac	70 l
Debit aer	960 m³/h
Diametru racord furtun	Φ 100 mm
Greutate	30 kg

T 88

Banc pentru fierastrau

AVANTAJELE PRODUSULUI

- *baza reglabil pe inaltime*
- *pliabil*
- *usor de transportat*
- *2 placi separate de 170x600 mm pana la 400x600 mm*
- *inaltime: 790 mm*
- *greutate: 8,5 kg*



STAYER

	Inaltime maxima	Ambalare	
1.5975	790 mm	1	**308,20**

SC 250 W PRO

Fierastrau cu masa pentru taieri inclinate cu panza de 254 mm, 1500 W

AVANTAJELE PRODUSULUI
- *blocarea automata a mesei mobile la 22,5° - 45° - 90°*
- *sistem de absorbtie a prafului*
- *masa mobila superioara din tabla*

DOTAREA STANDARD
- *panza TCT Z 40*
- *ghidaj paralel*
- *ghidaj longitudinal*



STAYER

	Putere motor	Ambalare	
1.1377	1500 W	1	**2280,66**

Putere motor	1500 W
Turatie la functionarea in gol	3800 rpm
Dimensiune panza	Φ 254x2,5x30 mm
Greutate	14,5 kg
Capacitate de taiere	b max x h - b x h max
- la unghi de 90°	155x25 - 65x77 mm
- la unghi de 45° dreapta	103x30 - 55x77 mm
- la unghi de 45° stanga	103x30 - 55x77 mm
- orizontal la unghi de 45°	150x20 - 90x50 mm
- la unghi compus de 45°-45°	150x20 - 72x20 mm
- plinta la unghi de 0°	50x100 mm
- plinta la unghi de 45°	32x100 mm
- tuburi din PVC	Φ 95 mm
- pe masa superioara	0-42 mm

SC 391 W

Fierastrau cu masa pentru taieri inclinate cu panza de 305 mm, 1600 W

AVANTAJELE PRODUSULUI
- *baza si masa superioara din aluminiu*
- *sistem de absorbtie a prafului*
- *pregatit pentru menghine orizontale*
- *masa rotativa cu blocare rapida*

DOTAREA STANDARD
- *panza TCT Z 48*
- *ghidaj paralel*
- *ghidaj longitudinal*



STAYER

INDUCTIE

	Putere motor	Ambalare	
1.90	1600 W	1	**4622,92**

Putere motor	1600 W
Turatie la functionarea in gol	3000 rpm
Dimensiune panza	Φ 305x2,5x30 mm
Greutate	22 kg
Capacitate de taiere	b max x h - b x h max
- la unghi de 90°	163x80 - 20x95 mm
- la unghi de 45° dreapta	112x80 mm
- la unghi de 45° stanga	112x80 mm
- orizontal la unghi de 45°	163x65 mm
- la unghi compus de 45°-45°	65x65 mm
- plinta la unghi de 0°	40x100 mm
- plinta la unghi de 45°	32x100/25x100 mm
- tuburi din PVC	Φ 80 mm
- pe masa superioara	0-52 mm

SCR 255 CW

Fierastrau telescopic pentru taieri inclinate cu panza de 255 mm, 1800 W

AVANTAJELE PRODUSULUI
- *cap telescopic*
- *baza aluminiu*
- *ghidaj cu laser al taierii*
- *sistem de absorbtie a prafului*

DOTAREA STANDARD
- *panza TCT Z 40*
- *menghina verticala*
- *2 suporturi pentru taiere*



STAYER

	Putere motor	Ambalare	
1.1676	1800 W	1	**3081,97**

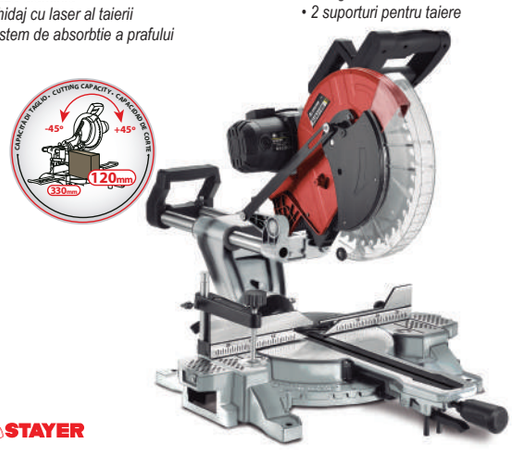
Putere motor	1800 W
Turatie la functionarea in gol	4200 rpm
Dimensiune panza	Φ 255x2,5x30 mm
Greutate	21 kg
Capacitate de taiere	b x h - utilizare radiala
- la unghi de 90°	300x90 mm
- la unghi de 45° dreapta	210x90 mm
- la unghi de 45° stanga	210x90 mm
- orizontal la unghi de 45°	300x55 mm
- la unghi compus de 45°-45°	210x55 mm

SCR 315 W

Fierastrau telescopic pentru taieri inclinate cu panza de 315 mm, 1800 W

AVANTAJELE PRODUSULUI
- *cap telescopic*
- *baza aluminiu*
- *ghidaj cu laser al taierii*
- *sistem de absorbtie a prafului*

DOTAREA STANDARD
- *panza TCT Z 40*
- *menghina verticala*
- *2 suporturi pentru taiere*



STAYER

	Putere motor	Ambalare	
1.1933	1800 W	1	**3236.07**

Putere motor	1800 W
Turatie la functionarea in gol	3500 rpm
Dimensiune panza	Φ 315x2,5x30 mm
Greutate	19 kg
Capacitate de taiere	b x h - utilizare radiala
- la unghi de 90°	370x105 - 330x12 mm
- la unghi de 45° dreapta	370x35 mm
- la unghi de 45° stanga	370x65 mm
- orizontal la unghi de 45°	255x65 mm
- la unghi compus de 45°-45°	255x65 mm

TV 509 D

Masina de taiat cu disc abraziv 355 mm, 2500 W

AVANTAJELE PRODUSULUI
- *motor monofazat*
- *puternica*
- *precisa*
- *structura robusta*
- *maner ergonomic*
- *posbilitate taiere 0-45°*
- *inlocuire usoara a periilor*

DOTAREA STANDARD
- *1 disc abraziv pentru metal*
- *cheie de service*
- *limitator taiere 0 - 45°*
- *clema cu prindere rapida*



STAYER

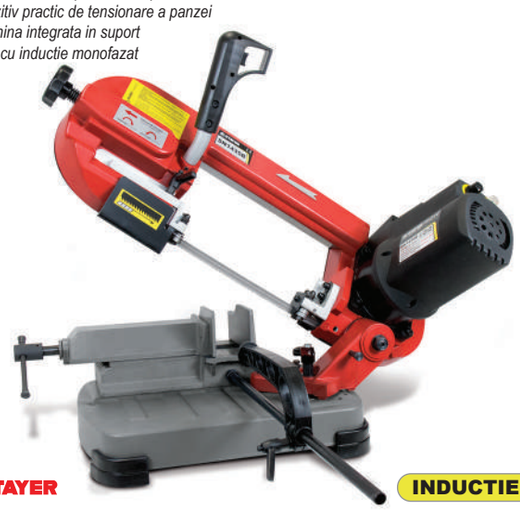
	Putere motor	Ambalare	
1.1976	2500 W	1	**1386.89**
	Putere motor	2500 W	
	Turatie la functionarea in gol	3800 rpm	
	Dimensiune panza	ø 355x3,0x25,4	
	Greutate	19,0 kg	
	Capacitate taiere la 90°structuri solide/profile	Φ 120 mm	
		105x105 mm	
	Capacitate taiere la 45°structuri solide/profile	130x90 mm	
		Φ 80 mm	
		50x50 mm	
		80x50 mm	

SN 1435 B

Fierastrau cu banda 1435 mm, 1/2 CP

AVANTAJELE PRODUSULUI
- *unghi de taiere intre 0°- 45 °*
- *panza usor de montat*
- *sistem de blocare pentru transport usor*
- *dispozitiv practic de tensionare a panzei*
- *menghina integrata in suport*
- *motor cu inductie monofazat*

DOTAREA STANDARD
- *panza banda 1435x12,7x0,65 mm*
- *menghina rapida*



STAYER

INDUCTIE

	Putere motor	Ambalare	
1.1460	1/2 CP	1	**4237.70**
	Putere	1/2 CP	
	Turatie la functionarea in gol	2000-4000 rpm	
	Dimensiune panza	1.435x12.7x0,65	
	Taiere la unghi de inclinare de	0-45°	
	Greutate	21 kg	
	Capacitate taiere la 90° structuri solide/profile	Φ 125 mm	
		125x125 mm	
		125x127 mm	
	Capacitate taiere la 45° structuri solide/profile	Φ 80 mm	
		80x80 mm	
		80x100 mm	

TV 509 C - Accesorii

Disc abraziv pentru metal 355 mm

- *dimensiuni: 355x3,0x25,4 mm*
- *material A 30 RBF*



STAYER

	Dimensiune	Ambalare	
5.511	355x3,0x25,4 mm	1	**23,24**

SN 1735

Fierastrau cu banda 1735 mm, 2000 W

AVANTAJELE PRODUSULUI
- *capacitate foarte mare de taiere*
- *AL - Pornire progresiva*
- *partea mobila din aluminiu*
- *intrerupator de siguranta pe maner*
- *sistem de siguranta pentru evitarea accidentelor*
- *dispozitiv practic de tensionare a panzei*
- *blocaj rapid prin clema de siguranta*
- *dispozitiv electronic pentru a regla viteza intre 30 si 80 rpm*

DOTAREA STANDARD
- *panza banda 1735x13x0,65 mm*
- *menghina rapida*



STAYER

INDUCTIE

	Putere motor	Ambalare	
1.5882	2000 W	1	**7550,82**
	Putere	2000 W	
	Turatie la functionarea in gol	80 m/min	
	Dimensiune panza	1.735x13x0,65	
	Taiere la unghi de inclinare de	0-45°	
	Greutate	38 kg	
	Capacitate taiere la 90° structuri solide/profile	Φ 160 mm	
		155x155 mm	
		170x150 mm	
	Capacitate taiere la 45° structuri solide/profile	Φ 120 mm	
		120x120 mm	
		120x100 mm	

MULTI RAZER 85 K

Fierastrau circular 85 mm, 600 W

AVANTAJELE PRODUSULUI
- *motor puternic S1*
- *indicator cu LASER pentru linia de taiere*
- *capacitate taiere prin plonjare*
- *baza suport confortabila*
- *ghidaj de sprijin pentru taieri precise*
- *pentru toate materialele*

DOTAREA STANDARD
- *disc diamantat CRC (placi ceramice)*
- *panza circulara placata CMS (lemn)*
- *panza circulara HSS (metale moi si aluminiu)*
- *3 discuri abrazive pentru metal si 3 discuri abrazive multimaterial*
- *ghidaj laser pentru inalta precizie*
- *ghidaj distantier pentru taieri exacte*
- *racord pentru exhaustare*





	Putere motor	Ambalare	
1.1051	600 W	1	**801,31**
	Putere motor	600 W	
	Turatii in gol	5500 rpm	
	Diametru disc	Φ 85 mm	
	Adancime de taiere	0-24 mm	
	Greutate	2,0 kg	

MULTI DRILL 130

Masina multifunctionala compacta 130 W

AVANTAJELE PRODUSULUI
- *control electronic al vitezei*
- *pentru toate materialele*

DOTAREA STANDARD
- *ax flexibil de 110 cm*
- *200 de accesorii pentru gaurire, slefuire, taiere, polizare, frezare si ascutire*
- *cutie plastic pentru transport*



	Putere motor	Ambalare	
1.651	130 W	1	**477,70**
	Putere motor	130 W	
	Turatii in gol	8000-33000 rpm	
	Capacitate mandrina cu adaptor	Φ 0-32 mm	
	Greutate	1,5 kg	

E 150 B

Polizor de banc cu 2 pietre 150 mm, 150 W

AVANTAJELE PRODUSULUI
- *motor de 150 W, clasa E, doua pietre de polizat de 125 mm, pentru ascutit si aplicatii in metal*
- *rulmenti cu bile sigilati in motor pentru viata lunga si utilizare lina*
- *polizorul si prefabricatul usor de reglat, manual*
- *corp din fonta turnat sub presiune*
- *motor prin inductie*
- *cu greutate redusa si compact*
- *comutator electromagnetic de reglare protejat impotriva prafului*
- *protectii transparente impotriva scanteilor, pentru securitate optima de lucru*
- *2 suporti pentru a compensa uzura discului abraziv*
- *2 pietre de slefuit 150 mm, A36 si A60*
- *picioare din cauciuc pentru utilizare sigura si fara vibratii*



	Putere motor	Ambalare	
2.313	150 W	1	**385,25**
	Putere motor	150 W	
	Turatii in gol	2950 rpm	
	Diametru disc	150x1,6x12,7 mm	
	Greutate	4,0 kg	

EP 200 B

Polizor de banc cu 2 pietre 200 mm, 350 W

AVANTAJELE PRODUSULUI
- *comutator electromacnetic protejat impotriva prafului*
- *motor cu viteza constanta cu rulmenticu bile, sigilati pentru a evita intrarea prafului*
- *protectie 270°*
- *lentile de protectie largi*
- *picioare din cauciuc pentru utilizare sigura si lipsita de vibratii*

DOTAREA STANDARD EP 200 M
- *2 pietre polizor 200 mm granulatie A36 si A60*



	Putere motor	Ambalare	
2.297	350 W	1	**708,85**
	Putere motor	350 W	
	Turatii in gol	2950 rpm	
	Diametru disc	200x20x16 mm	
	Greutate	11,5 kg	

ECA 150 B

Polizor de banc cu 2 pietre 150/200 mm, 350 W

AVANTAJELE PRODUSULUI

- *comutator electromacnetic protejat impotriva prafului*
- *motor cu viteza constanta cu rulmenti cu bile, sigilati pentru a evita intrarea prafului*
- *protectie 270º si lentile de protectie largi*
- *picioare din cauciuc pentru utilizare sigura si lipsita de vibratii*

DOTAREA STANDARD

- *1 piatra polizor 150 mm si 1 piatra polizor 200 mm pentru ascutit*



STAYER

	Putere motor	Ambalare	
2.404	350 W	1	**724,26**

Putere motor	350 W
Turatii in gol	2950 rpm
Diametru disc	150x20x12,7 mm
Diametru disc pentru ascutit	200x40x20 mm
Greutate	8,5 kg

ECP 150 B

Polizor de banc cu piatra/perie 150 mm, 350 W

AVANTAJELE PRODUSULUI

- *comutator electromacnetic protejat impotriva prafului*
- *motor cu viteza constanta cu rulmenti cu bile, sigilati pentru a evita intrarea prafului*
- *protectie 270º si lentile de protectie largi*
- *picioare din cauciuc pentru utilizare sigura si lipsita de vibratii*

DOTAREA STANDARD

- *1 piatra polizor 150 mm si 1 perie 150 mm*



STAYER

	Putere motor	Ambalare	
2.403	350 W	1	**662,62**

Putere motor	350 W
Turatii in gol	2950 rpm
Diametru disc	150x20x12,7 mm
Diametru perie	150 mm
Greutate	7,0 kg

BC 1200 D

Aspirator pentru cenusa 1200 W

AVANTAJELE PRODUSULUI

- *furtun metalic flexibil pentru aspirare sigura*
- *usor de transportat*

DOTAREA STANDARD

- *tub aspirare din otel 38 mm*
- *maner rigid de extractie 20 cm*
- *filtru HEPA*
- *maner transport*



STAYER

	Putere motor	Ambalare	
1.1072	1200 W	1	**446,89**

Putere motor	1200 W
Capacitate rezervor	20 litri
Capacitate suctiune	19 Kpa
Diametru tub	38 mm
Lungime tub	1 m
Greutate	4,5 kg

ECL 150 B

Polizor de banc cu piatra/banda abraziva 350 W

AVANTAJELE PRODUSULUI

- *comutator electromacnetic protejat impotriva prafului*
- *motor cu viteza constanta cu rulmenti cu bile, sigilati pentru a evita intrarea prafului*
- *protectie 270º si lentile de protectie largi*
- *picioare din cauciuc pentru utilizare sigura si lipsita de vibratii*

DOTAREA STANDARD

- *1 piatra polizor 150 mm si 1 panza abraziva 50x686 mm*



STAYER

	Putere motor	Ambalare	
2.405	350 W	1	**739,67**

Putere motor	350 W
Turatii in gol	2950 rpm
Diametru disc	150x20x12,7 mm
Dimensiune banda abraziva	50x686 mm
Greutate	7,0 kg

EPG 700

Pistol de vopsit cu rezervor cu roti 700 W

AVANTAJELE PRODUSULUI

- *carucior cu roti si maner telescopic pentru deplasare facila*
- *demontare usoara a rezervorului pentru o lucru rapid*
- *carlige pentru infasurarea furtunului si cablul de alimentare*
- *buton reglabil pentru reglarea debitului de vopsea*
- *maner ergonomic*
- *trei moduri de vopsire*

DOTAREA STANDARD

- *vascozimetru*
- *ac de curatare*



STAYER

	Putere motor	Ambalare	
1.1223	700 W	1	**708,85**

Putere motor	700 W
Presiune pistol	0,1-0,3 bar
Capacitate rezervor	0,8 litri
Capacitate livrare	1200 g/min
Vascozitate maxima	50 DIN/sec
Diametru duza	2,5 mm
Greutate	7,0 kg

EPG 300

Pistol de vopsit 400 W

AVANTAJELE PRODUSULUI
- *detasare usoara rezervorului pentru lucru rapid*
- *inlocuire rapida a duzelor*

DOTAREA STANDARD
- *vascozimetru*



STAYER

	Putere motor	Ambalare	
1.738	400 W	1	**400,66**
	Putere motor	400 W	
	Presiune pistol	0,1-0,2 bar	
	Capacitate rezervor	0,8 litri	
	Capacitate livrare	300 g/min	
	Vascozitate maxima	30 DIN/sec	
	Diametru duza	2,5 mm	
	Greutate	1,47 kg	

HL 105 B

Aparat de spalat cu inalta presiune 1400 W

AVANTAJELE PRODUSULUI
- *motor cu perii puternic*
- *Start/Stop automat*
- *TSS (Total Stop System)*

DOTAREA STANDARD
- *se livreaza cu caucior cu roti*
- *lance turbo*
- *lance Vario Power*
- *cablu 5 m*
- *5 m furtun inalta presiune*



STAYER

IP X5

	Putere motor	Ambalare	
1.2008	1400 W	1	**924,59**
	Putere motor	1400 W	
	Debit	5,5 l/min	
	Presiune maxima	105 bar	
	Presiune de lucru	70 bar	
	Presiune maxima alimentare apa	4 bar	
	Greutate	5,8 kg	

HL 2000

Aparat de spalat cu inalta presiune 2000 W

AVANTAJELE PRODUSULUI
- *motor cu perii puternic*
- *Start/Stop automat*
- *TSS (Total Stop System)*

DOTAREA STANDARD
- *se livreaza cu caucior cu roti*
- *lance turbo*
- *lance Vario Power*
- *cablu 5 m*
- *5 m furtun inalta presiune*
- *dispersor detergent*
- *tub extensibil*
- *tambur furtun*
- *perie*



STAYER

IP X5

	Putere motor	Ambalare	
1.1996	2000 W	1	**1695,08**
	Putere motor	2000 W	
	Debit	6,5 l/min	
	Presiune maxima	150 bar	
	Presiune de lucru	130 bar	
	Presiune maxima alimentare apa	4 bar	
	Greutate	8,7 kg	

HL 3000 IND

Aparat de spalat cu inalta presiune 3000 W

INDUCTIE

AVANTAJELE PRODUSULUI
- *motor cu perii puternic*
- *Start/Stop automat*
- *TSS (Total Stop System)*

DOTAREA STANDARD
- *se livreaza cu caucior cu roti*
- *lance turbo metalica*
- *lance Vario Power*
- *cablu 5 m*
- *5 m furtun inalta presiune*
- *dispersor detergent*
- *tub extensibil*
- *tambur furtun*
- *perie*
- *set duze*



STAYER

IP X5

	Putere motor	Ambalare	
1.1552	3000 W	1	**4083,61**
	Putere motor	3000 W	
	Debit	9 l/min	
	Presiune maxima	200 bar	
	Presiune de lucru	150 bar	
	Presiune maxima alimentare apa	7 bar	
	Greutate	25,0 kg	

PLUS 140 B GE K

Invertor de sudura MMA 140 A

AVANTAJELE PRODUSULUI
- *sudura in curent continuu INVERTOR*
- *pregatit pentru sudura TIG cu electrod de Tungsten si gaz inert (Argon)*
- *excelent pentru. suduri usoare si medii / intretinere si constructii metalice*
- *dotat cu doi ventilalori pentru optimizarea racirii*
- *usor de sudat chiar si pentru neexperimentati datorita controlului electronic*
- *functii: HOT START, ARC FORCE, ANTI-STICK*
- *usor de transportat / geanta cu maner si maner pe aparat*
- *greutate redusa 3,5 kg*
- *factor de putere 35% (dutty cycle %)*
- *pregtit pentru sudura cu orice electrozi: bazic, rutilic, INOX,celulozic si fonta*

DOTAREA STANDARD
- *1 cablu alimentare Cupru 2m x 1,5mm²*
- *1 cablu de Masa (minus) Cupru 2m x 16mm²*
- *1 cablu de cu port-electrod Cupru 2m x 16mm²*
- *masca de sudura si ciocan pentru curatat zgura*
- *geanta de transport*











STAYER WELDING

	Tensiune alimentare	Ambalare	
1.1365	220 V	1	**1309,84**
	Curent (X=35%)	140 A	
	Factor de putere / Duty Cycle	35%	
	Electrod / diametru maxim	3,25 mm	
	Greutate	3,5 kg	
	Tensiune alimentare	220 V	
	Putere generator	2-4 kVA	
	Dimensiuni	11,5x26x17,5 cm	
	Corespunde reglementarilor europene	2002/95/CE si EN/IEC 60974	

POTENZA 160 GE

Invertor de sudura MMA 160 A POTENZA 160 GE

AVANTAJELE PRODUSULUI
- *sudura in curent continuu INVERTOR*
- *pregatit pentru sudura TIG cu electrod de Tungsten si gaz inert (Argon)*
- *excelent pentru. suduri medii si grele / intretinere si constructii metalice*
- *dotat cu doi ventilalori pentru optimizarea racirii*
- *usor de sudat chiar si pentru neexperimentati datorita controlului electronic*
- *functii: HOT START, ARC FORCE, ANTI-STICK*
- *usor de transportat / maner pe aparat*
- *greutate redusa 4,4 kg*
- *factor de putere 60% (dutty cycle %)*
- *pregtit pentru sudura cu orice electrozi: bazic, rutilic, INOX,celulozic si fonta*
- *toate bobinajele si cablurile sunt din cupru 100%*
- *transformator mono-toroidal feritic autoprotejat 600V*

DOTAREA STANDARD
- *1 cablu alimentare Cupru 3m x 2,5mm²*
- *1 cablu de Masa (minus) Cupru 2m x 25mm²*
- *1 cablu de cu port-electrod Cupru 2m x 25mm²*







STAYER WELDING

	Tensiune alimentare	Ambalare	
2.286	220 V	1	**1787,54**
	Curent (X=60%)	160 A	
	Factor de putere / Duty Cycle	60%	
	Electrod / diametru maxim	4,0 mm	
	Greutate	4,4 kg	
	Tensiune alimentare	220 V	
	Tensiune in gol	76 V	
	Putere generator	4,5	
	Dimensiuni	28x13,5x19,5 cm	
	Corespunde reglementarilor europene	2004/108/EC 2002/95/CE si IEC 60974	

POTENZA 200 GE

Invertor de sudura MMA 200 A POTENZA 200 GE

AVANTAJELE PRODUSULUI

- *sudura in curent continuu INVERTOR*
- *pregatit pentru sudura TIG cu electrod de Tungsten si gaz inert (Argon)*
- *excelent pentru. suduri medii si grele / intretinere si constructii metalice*
- *pregatit pentru lucru cu generator*
- *functii: HOT START, ARC FORCE, ANTI-STICK*
- *usor de transportat / maner pe aparat*
- *greutate redusa 6 kg*
- *factor de putere 60% (dutty cycle %)*
- *pregtit pentru sudura cu orice electrozi: bazic, rutilic, INOX,celulozic si fonta*
- *toate bobinajele si cablurile sunt din cupru 100%*

DOTAREA STANDARD

- *1 cablu alimentare Cupru 3m x 2,5mm²*
- *1 cablu de Masa (minus) Cupru 2m x 25mm²*
- *1 cablu de cu port-electrod Cupru 2m x 25mm²*







	Tensiune alimentare	Ambalare	
2.287	220 V	1	**2234,43**
	Curent (X=60%)	200 A	
	Factor de putere / Duty Cycle	60%	
	Electrod / diametru maxim	5,0 mm	
	Greutate	6,0 kg	
	Tensiune alimentare	220 V	
	Tensiune in gol	76 V	
	Putere generator	6 kVA	
	Dimensiuni	38x16x25 cm	
	Corespunde reglementarilor europene	2004/108/EC 2002/95/CE si IEC 60974	

PROGRESS 1700L

Invertor de sudura MMA 170 A PROGRESS 1700L

AVANTAJELE PRODUSULUI

- *sudura in curent continuu INVERTOR*
- *pregatit pentru sudura TIG cu electrod de Tungsten si gaz inert (Argon)*
- *excelent pentru. suduri medii si grele / intretinere si constructii metalice*
- *usor de sudat chiar si pentru neexperimentati datorita controlului electronic*
- *functii: HOT START, ARC FORCE, ANTI-STICK*
- *functie LIFT-ARC*
- *usor de transportat / maner pe aparat*
- *pregatita adaptare pentru lucru cu generator +/- 17% variatii de tensiune*
- *greutate redusa 5 kg*
- *factor de putere 60% (dutty cycle %)*
- *pregtit pentru sudura cu orice electrozi: bazic, rutilic, INOX,celulozic si fonta*
- *toate bobinajele si cablurile sunt din cupru 100%*

DOTAREA STANDARD

- *1 cablu alimentare Cupru 2,2m x 2,5mm²*
- *1 cablu de Masa (minus) Cupru 2m x 25mm²*
- *1 cablu de cu port-electrod Cupru 2,5m x 25mm²*







	Tensiune alimentare	Ambalare	
1.1032	220 V	1	**2234,43**
	Curent (X=60%)	170 A	
	Factor de putere / Duty Cycle	60%	
	Electrod / diametru maxim	4,0 mm	
	Greutate	5,0 kg	
	Tensiune alimentare	200-250 V	
	Tensiune in gol	82 V	
	Putere generator	5 kVA	
	Dimensiuni	12,5x34x18,5 cm	
	Corespunde reglementarilor europene	2004/108/EC 2002/95/CE si IEC 60974	

PROGRESS 2100 PFC

Invertor de sudura MMA 210 A PROGRESS 2100 PFC

AVANTAJELE PRODUSULUI

- *sudura in curent continuu INVERTOR*
- *pregatit pentru sudura TIG cu electrod de Tungsten si gaz inert (Argon)*
- *excelent pentru suduri medii si grele / intretinere si constructii metalice*
- *pregatit pentru lucru cu generator*
- *functii: HOT START, ARC FORCE, ANTI-STICK*
- *usor de transportat / maner pe aparat*
- *greutate redusa 6 kg*
- *protectie termica suplimentara 70 grade*
- *factor de putere 60% (dutty cycle %)*
- *pregtit pentru sudura cu orice electrozi: bazic, rutilic, INOX, celulozic si fonta*
- *pregatita adaptare pentru lucru cu generator +/- 17% variatii de tensiune*
- *toate bobinajele si cablurile sunt din cupru 100%*
- *sistem silentios de control al racirii*

DOTAREA STANDARD

- *1 cablu alimentare Cupru 3m x 2,5mm²*
- *1 cablu de Masa (minus) Cupru 3m x 25mm²*
- *1 cablu de cu port-electrod Cupru 3m x 25mm²*
- *1 curea pentru transport*

Power Factor Correction



System SILENCE|CONTROL



STAYER WELDING

	Tensiune alimentare	Ambalare	
1.1363	220 V	1	**3698,36**
	Curent (X=60%)	210 A	
	Factor de putere / Duty Cycle	100%	
	Electrod / diametru maxim	6,0 mm	
	Greutate	8,4 kg	
	Tensiune alimentare	85-265 V	
	Conexiune electrica	1/2"	
	Putere generator	2-6 kVA	
	Dimensiuni	41x14,5x24 cm	
	Corespunde reglementarilor europene	2004/108/EC 2002/95/CE si IEC 60974	

MIG 200 MULTI

Aparat de sudura MIG/MAG 200 A M 40.20 MULTI

AVANTAJELE PRODUSULUI

- *sudura continua MIG/MAG, TIG si electrod*
- *capacitate rola pana la 15 kg*
- *mecanism puternic de alimentare cu sarma*
- *buton special pentru alimentare initiala usoara*
- *inversarea polaritatii usoara*
- *factor de putere 40% (dutty cycle %)*
- *pregatit pentru alimentare la generator*
- *pregatit pentru sudura cu orice electrozi: bazic, rutilic, INOX, celulozic si fonta*
- *toate bobinajele si cablurile sunt din cupru 100%*

DOTAREA STANDARD

- *1 torta MIG Binzel 15 AK*
- *1 cablu alimentare Cupru 3m x 2,5mm²*
- *1 cablu de Masa (minus) Cupru 3m x 25mm²*
- *1 cablu de cu port-electrod Cupru 3m x 25mm²*











STAYER WELDING

	Tensiune alimentare	Ambalare	
1.739	220 V	1	**7704,92**
	Curent (X=60%)	200 A	
	Factor de putere / Duty Cycle	40%	
	Electrod / diametru maxim	0,6-1,0 mm	
	Greutate	22,0 kg	
	Tensiune alimentare	200-250 V	
	Tensiune in gol	60 V	
	Putere generator	6 kVA	
	Dimensiuni	23x50x36 mm	
	Corespunde reglementarilor europene	2004/108/EC 2002/95/CE si IEC 60974	

TIG 200 HF P

Aparat de sudura TIG 200 A TIG 200 HF P

AVANTAJELE PRODUSULUI

- *sudura in curent continuu INVERTOR MMA si TIG AC/DC*
- *sudura TIG cu electrod de Tungsten si gaz inert (Argon)*
- *suduri TIG orice materiale si orice grosimi inclusiv Aluminiu si aliaje*
- *capacitate de generare arc AC/DC pulsatoriu*
- *functii: HOT START, ARC FORCE, ANTI-STICK*
- *factor de putere 100% (dutty cycle %)*
- *pregatit pentru sudura cu orice electrozi: bazic, rutilic, INOX,celulozic si fonta*
- *toate bobinajele si cablurile sunt din cupru 100%*

DOTAREA STANDARD

- *1 torta ergonomica TIG SR 17/M16 3mx16mm²*
- *4 diuze Cupru (nr 4,5,6 si 7)*
- *3 port electrozi (1,0 ; 2,4 si 3,2 mm²)*
- *1 cablu alimentare Cupru 3m x 2,5mm²*
- *1 cablu de Masa (minus) Cupru 3m x 25mm²*
- *1 cablu de cu port-electrod Cupru 3m x 25mm²*
- *1 curea pentru transport*







1.1918	Tensiune alimentare: 220 V	Ambalare: 1	5778,69
	Curent (X=60%)	200 A	
	Factor de putere / Duty Cycle	100%	
	Electrod / diametru maxim	0,5-2,4 mm	
	Greutate	27,0 kg	
	Tensiune alimentare	200-250 V	
	Tensiune in gol	64 V	
	Dimensiuni	18x41x29 cm	
	Corespunde reglementarilor europene	2004/108/EC 2002/95/CE si IEC 60974	

TIG AC/DC 200 HF PULSED

Invertor de sudura MIG 200 A T 40.20 PAH

AVANTAJELE PRODUSULUI

- *sudura in curent continuu INVERTOR MMA si TIG AC/DC*
- *sudura TIG cu electrod de Tungsten si gaz inert (Argon)*
- *sudura TIG in orice materiale si orice grosimi inclusiv aluminiu si aliaje*
- *capacitate de generare arc AC/DC pulsatoriu*
- *functii: HOT START, ARC FORCE, ANTI-STICK*
- *factor de putere 40% (dutty cycle %)*
- *pregatit pentru sudura cu orice electrozi: bazic, rutilic, INOX, celulozic si fonta*
- *toate bobinajele si cablurile sunt din cupru 100%*

DOTAREA STANDARD

1 torta ergonomica TIG SR 17/M16 3mx16mm²

- *4 diuze Cupru (nr 4,5,6 si 7)*
- *3 port electrozi (1,0 ; 2,4 si 3,2 mm²)*
- *1 cablu alimentare Cupru 3m x 2,5mm²*
- *1 cablu de Masa (minus) Cupru 3m x 25mm²*
- *1 cablu de cu port-electrod Cupru 3m x 25mm²*
- *1 curea pentru transport*













1.741	Tensiune alimentare: 220 V	Ambalare: 1	13098,36
	Curent (X=60%)	200 A	
	Factor de putere / Duty Cycle	40%	
	Electrod / diametru maxim	0,5-2,4 mm	
	Greutate	27,0 kg	
	Tensiune alimentare	200-250 V	
	Tensiune in gol	64V	
	Dimensiuni	21x44x50 cm	
	Corespunde reglementarilor europene	2004/108/EC 2002/95/CE si IEC 60974	

AS-X

Masca de sudura automata

AVANTAJELE PRODUSULUI

• pregatita si pentru polizare
• raspuns foarte rapid al filtrului reglabil intre 0,1-0,9s
• filtrul asigura protectie intre Nr. 9 si 13
• posibilitate reglaj de timp de intarziere de revenire la clar
• odihnitor pentru ochi
• maxima durabilitate si autonomie gratie celulelor solare dublate de baterii

DOTAREA STANDARD

• filtru automat Nr. 9-13 (92x42mm)



89/686/CEE
HIGH QUALITY PRODUCT
EN379 • EN175

READY FOR GRINDING



STAYER WELDING

	Filtru	Ambalare	
1.1059	110x90x9 mm	1	**385,25**
	Dimensiune filtru	110x90x9 mm	
	Dimensiune vizor	92x42 mm	
	Filtru clar	4 DIN	
	Filtru umbra	9-13 DIN	
	Protectie minima la polizare	2 DIN	
	Protectie UV/IR	16 DIN	
	Timp reactie clar-umbra	1/25000 s	
	Timp reactie umbra-clar	0,2 - 0,8 s	
	Alimentare	celule solare	
	Reglaj sensibilitate	manual	
	Temperatura de lucru	-5 la 55 grade C	
	Greutate	450 g	
	Termen de utilizare sigura	2 ani	



SCULE PNEUMATICE

Maner ergonomic

Sculele pneumatice Unior au un maner ergonomic pentru o manipulare usoara, in timp ce carcasa lor robusta garanteaza o durata lunga de viata chiar si in cele mai dificile conditii de lucru. Calitatea superioara a materialelor si realizarea de mare precizie a mecanismului de antrenare garanteaza functionarea perfecta la moment de torsiune mare, in timp ce capetele de antrenare sunt tratate termic pentru a rezista la momente de torsiune mari si utilizare de lunga durata.

Executare eficienta

Datorita aerului comprimat, uneltele pneumatice Unior permit executarea de actiuni variate repede, eficient, simplu si inconditii de siguranta.
Turbinele sculelor pneumatice UNIOR, de inalta performanta, au cel mai mic consum de aer raportat la cuplul dezvoltat.



Scule pneumatice 3/8”	491
Scule pneumatice 1/2”	492
Scule pneumatice 3/4”	494
Scule pneumatice 1”	495
Scule pneumatice 1.1/2”	495
Ciocan pneumatic	496
Slefuitoare, polizoare, masini de polisat si de gaurit pneumatice	497
Accesorii pneumatice	499
Dalti SDS plus si SDS max	501



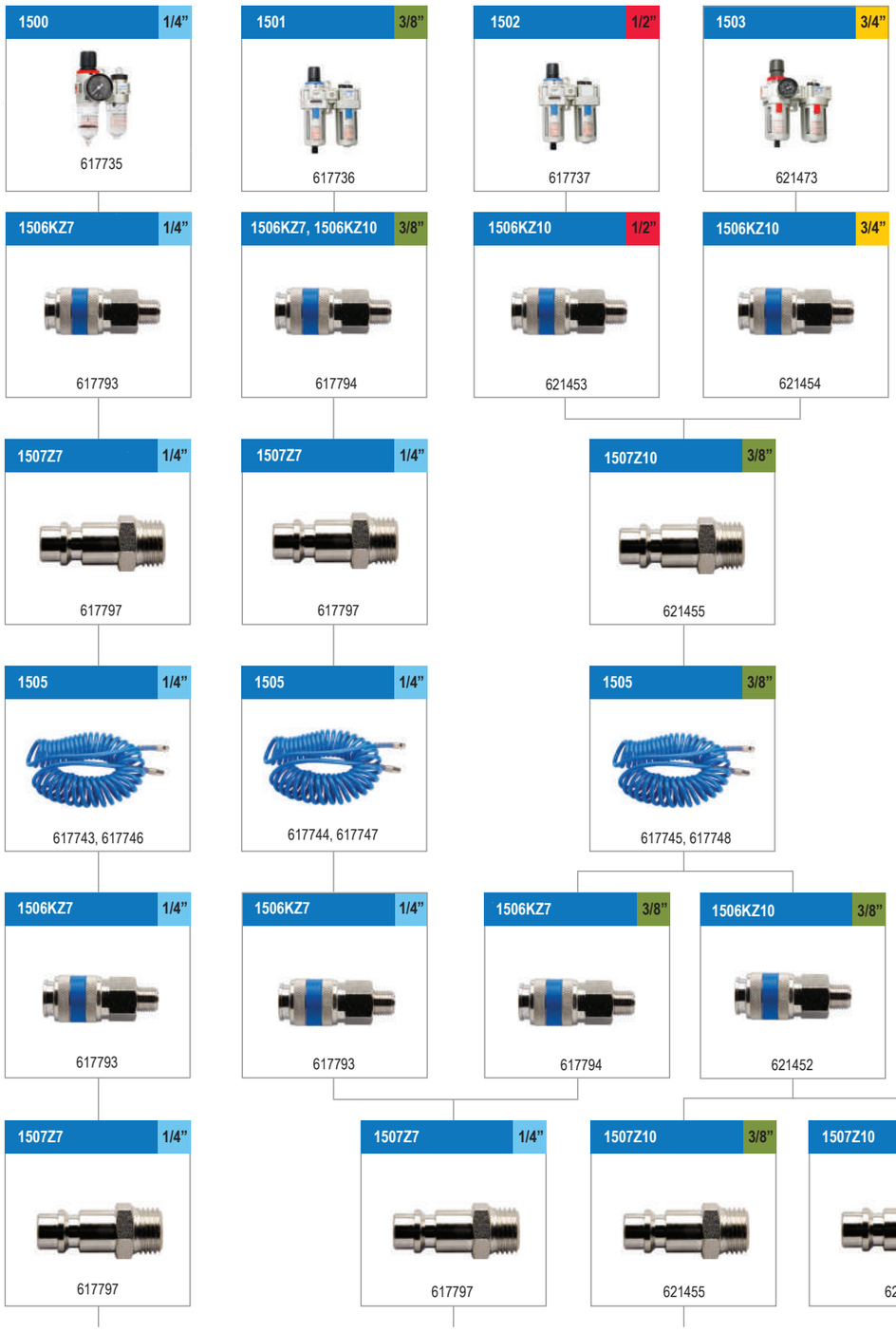
Cele mai inalte standarde de siguranta

sculele pneumatice Unior se disting prin inalta lor calitate si functionarea in conditii de siguranta indeplinind cele mai inalte standarde de siguranta. Utilizarea lor simpla face sculele potrivite pentru uz domestic precum si pentru utilizatori profesionisti, care pot alege dintr-o gama variata de antrenoare pneumatice, ciocane pneumatice si seturi ce contin accesorii diferite.

Cum se conecteaza sculele pneumatice Unior ?



presiune maxima de aer comprimat: 9,5 Bar



1506KN7	617795	1/4"	20
1506KN7	617796	3/8"	20
1506KZ7	617793	1/4"	20
1506KZ7	617794	3/8"	20
1506KZ10	621452	3/8"	24
1506KZ10	621453	1/2"	24
1506KZ10	621454	3/4"	27
1507Z7	617797	1/4”	14
1507Z7	617798	3/8”	19
1507Z7	618483	1/2”	22
1507Z10	621455	3/8"	17
1507Z10	621456	1/2"	24
1507Z10	621457	3/4"	27

- 1508A (617767)
- 1508B (617768)
- 1514 (615320)
  1531 (615318)

- 1517 P (617728)
- 1517 S (617729)
- 1541 (615320)
- 1561 (615322)
- 1551 (615319)
- 1562 (615321)
- 1571 (615324)
- 1510 (617733, 617713)
- 1514 (617714, 617715)
- 1515 (617726)
- 1515 H (617727)
- 1516 (617731)
- 1516 A (617732)
- 1531 (615318)
- 1518 (617730)

- 1572 (615323)

- 1591 (615325)
- 1592 (615326)
- 1596 (617690)
- 1597 (617691)

1522

Mini antrenor reversibil pneumatic 1/4"

- *rulment cu ace*
- *cap clichet robust*
- *rulment cu bile*
- *maner antialunecare*
- *regulator de aer model nou*
- *racord aer pivotant la 360°*
- *evacuare din spate*

Caracteristici tehnice:

- *turatie mers in gol: 200 rpm*
- *patrat de antrenare: 1/4"*
- *cuplu maxim: 41 Nm*
- *racord aer: 1/4"*
- *diametru recomandat furtun aer: 3/8"*
- *consum de aer: 113 l/min*
- *lungime: 196 mm*
- *greutate: 0,5 kg*
- *nivel de vibratii: 1,8 m/s²*
- *nivel de zgomot: 79 dB(A)*
- *presiune aer recomandata: 6,2 bar*

Utilizare

- *industria auto, industria aerospatiala, echipament agricol, industria grea, constructia de masini, industria de constructii navale, montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*



		L					
627565	1/4"	196	41	520	1F	1	**613,00**

1531

Antrenor reversibil pneumatic 3/8"

- *viteza de rotatie 250 rot/min*
- *moment de torsiune max. 54 Nm*
- *presiunea maxima de aer comprimat:6, 2 Bar*
- *consum de aer comprimat 62 l/min*
- *racord de aer 1/4"*
- *capacitate maxima de strangere M 6*

Avantaje:

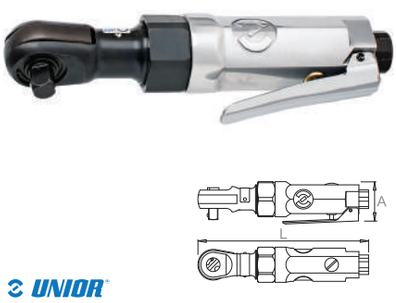
- *scula mica si compacta*
- *calitatea productiei*
- *maner rotitor*
- *reglare rapida si usoara a sensului de rotatie*
- *supapa de protectie previne intrarea necontrolata a aerului in scula*

Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*



		A	L					
615318	3/8"	37	165	54	520	1F	1	**564,48**

1532

Mini antrenor reversibil pneumatic 3/8"

- *rulment cu ace*
- *cap clichet robust*
- *rulment cu bile*
- *maner antialunecare*
- *regulator de aer model nou*
- *racord aer pivotant la 360°*
- *evacuare din spate*

Caracteristici tehnice:

- *turatie mers in gol: 200 rpm*
- *patrat de antrenare: 3/8"*
- *cuplu maxim: 54 Nm*
- *racord aer: 1/4"*
- *diametru recomandat furtun aer: 3/8"*
- *consum de aer: 113 l/min*
- *lungime: 196 mm*
- *greutate: 0,5 kg*
- *nivel de vibratii: 1,8 m/s²*
- *nivel de zgomot: 79 dB*
- *presiune aer recomandata: 6,2 bar*

Utilizare

- *industria auto, industria aerospatiala, echipament agricol, industria grea, constructia de masini, industria de constructii navale, montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*



		L					
627566	3/8"	196	54	500	1F	1	**626,41**

1535

Antrenor reversibil pneumatic si set de capete chei tubulare 3/8" in cutie plastic

- *Dimensiunea cutiei : 244 x 207 x 44*



615513	8 - 17 / 13	2450	1G	1	**980,15**

1531 (3/8"), **230.4/4** (3/8" x 125, 3/8" x 75), **230.8/4** (6 - 12, 13 - 21), **230/4 6p** (8, 10, 11, 12, 13, 15, 17), **1374** (50ml)

1545

Pistol pneumatic si set de capete chei tubulare 3/8" in cutie plastic

- *Dimensiunea cutiei : 307 x 260 x 70*



615514	8 - 17 / 14	2515	1G	1	**1479,15**

1541 (3/8"), **230.4/4** (3/8"x125, 3/8"x75), **230.8/4** (6 - 12, 13 - 21), **230/4 6p** (8, 10, 11, 12, 13, 14, 15, 17), **1374** (50ml)

1555

Antrenor reversibil pneumatic si set de capete chei tubulare 1/2" in cutie plastic

- *Dimensiunea cutiei : 307 x 260 x 70*



615515	10 - 24 / 14	3145	1G	1	**1275,86**

1551 (1/2"), **231.4/4** (1/2"x125, 1/2"x75), **231.8/4** (10 - 14, 15 - 32), **231/4 6p** (10, 13, 14, 17, 19, 21, 22, 24), **1374** (50ml)

1541

Pistol pneumatic 3/8"

- *viteza de rotatie 10000 rot/min*
- *moment de torsiune max. 271 Nm*
- *presiunea maxima de aer comprimat:6, 2 Bar*
- *consum de aer comprimat 70 l/min*
- *racord de aer 1/4"*
- *capacitate maxima de strangere M10*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

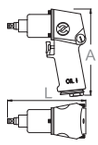
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*





UNIOR

		A	L					
615320	3/8"	175	139	271	1350	1F	1	**1039,11**



1551

Antrenor reversibil pneumatic 1/2"

- *viteza de rotatie 160 rot/min*
- *moment de torsiune max. 81 Nm*
- *presiunea maxima de aer comprimat:6, 2 Bar*
- *consum de aer comprimat 113 l/min*
- *racord de aer 1/4"*
- *capacitate maxima de strangere M10*

Avantaje:

- *scula mica si compacta*
- *calitatea productiei*
- *maner rotitor*
- *reglare rapida si usoara a sensului de rotatie*
- *supapa de protectie previne intrarea necontrolata a aerului in scula*

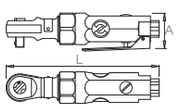
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*





UNIOR

		A	L					
615319	1/2"	45	254	81	1370	1F	1	**741,59**

1552

Antrenor reversibil pneumatic 1/2"

- *rulment cu ace*
- *cap clichet robust*
- *rulment cu bile*
- *maner antialunecare*
- *regulator de aer model nou*
- *racord aer pivotant la 360°*
- *evacuare din spate*

Caracteristici tehnice:

- *turatie mers in gol: 150 rpm*
- *patrat de antrenare: 1/2"*
- *cuplu maxim: 90 Nm*
- *racord aer: 1/4"*
- *diametru recomandat furtun aer: 3/8"*
- *consum de aer: 113 l/min*
- *lungime: 256 mm*
- *greutate: 1,2 kg*
- *nivel de vibratii: 2,6 m/s²*
- *nivel de zgomot: 79 dB*
- *presiune aer recomandata: 6,2 bar*

Utilizare

- *industria auto, industria aerospatiala, echipament agricol, industria grea, constructia de masini, industria de constructii navale, montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*





UNIOR

		L					
627567	1/2"	256	90	1200	1F	1	**631,50**

1563

Pistol pneumatic reversibil varianta Stubby 1/2"

- *carcasa motorului din material compozit*
- *evacuarea prin maner (amortizorul de zgomot)*
- *schimbarea directiei de mers cu o singura mana*
- *compact si puternic*

Caracteristici tehnice:

- *turatie mers in gol: 8000 rpm*
- *patrat de antrenare: 1/2"*
- *cuplu maxim: 745 Nm*
- *cuplu maxim desfacere: 1275 Nm*
- *racord aer: 1/4"*
- *diametru recomandat furtun aer: 3/8"*
- *consum de aer: 164 l/min*
- *lungime: 98 mm*
- *greutate: 1,11 kg*
- *nivel de vibratii: 7,3 m/s²*
- *nivel de zgomot: 104 dB*
- *presiune aer recomandata: 6,2 bar*

Utilizare

- *industria auto, industria aerospatiala, echipament agricol, industria grea, constructia de masini, industria de constructii navale, montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*





UNIOR

		L					
627568	1/2"	98	745	1110	1F	1	**891,46**

1564

Pistol pneumatic unghiular de impact 1/2"

- *carcasa motorului din aluminiu*
- *maner din material compozit*
- *mecanism Jumbo Hammer*
- *schimbarea sensului se realizeaza cu o singura mana*
- *evacuarea prin maner (amortizor de zgomot)*
- *compact si puternicic*

Caracteristici tehnice:

- *turatie mers in gol: 8000 rpm*
- *patrat de antrenare: 1/2"*
- *cuplu maxim: 343 Nm*
- *cuplu maxim desfacere: 536 Nm*
- *racord aer: 1/4"*
- *diametru recomandat furtun aer: 3/8"*
- *consum de aer: 113 l/min*
- *lungime: 88 mm*
- *greutate: 1,16 kg*
- *nivel de vibratii: 9,96 m/s²*
- *nivel de zgomot: 92 dB*
- *presiune aer recomandata: 6,2 bar*

Utilizare

- *industria auto, industria aerospatiala, echipament agricol, industria grea, constructia de masini, industria de constructii navale, montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*





UNIOR

	■	L					
627569	1/2"	88	343	1160	1F	1	1114,29

1561

Pistol pneumatic 1/2"

- *viteza de rotatie 8000 rot/min*
- *moment de torsiune max. 814 Nm*
- *presiunea maxima de aer comprimat:6, 2 Bar*
- *consum de aer comprimat 113 l/min*
- *racord de aer 1/4"*
- *capacitate maxima de strangere M16*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*



UNIOR

	■	A	L					
615322	1/2"	190	188	814	2910	1F	1	1026,02

1565

Pistol pneumatic si set de capete chei tubulare 1/2" in cutie de plastic

- *Dimensiunea cutiei : 346 x 292 x 83*



UNIOR

615516	10 - 27 / 20	5600	1G	1	2034,72

1561 (1/2"), **231.4/4** (1/2" x 125, 1/2"x75), **231.8/4** (10 - 14, 15 - 32), **231/4 6p** (10, 13, 17, 19, 21, 22, 24, 27), **1374** (50ml), **231/4L6p** (17, 19, 21, 22, 24, 27)

1566

Pistol pneumatic reversibil de impact cu turatie variabila 1/2"

- *carcasa motor din material compozit*
- *mecanism twin hammer*
- *schimbarea sensului se realizeaza cu o singura mana*
- *buton pentru schimbarea turatiei*

Caracteristici tehnice:

- *turatie mers in gol: 8000 rpm*
- *patrat de antrenare: 1/2"*
- *cuplu maxim: 1223 Nm*
- *cuplu maxim desfacere: 1756 Nm*
- *racord aer: 1/4"*
- *diametru recomandat furtun aer: 3/8"*
- *consum de aer: 113 l/min*
- *lungime: 187 mm*
- *greutate: 1,91 kg*
- *nivel de vibratii: 7.7 m/s²*
- *nivel de zgomot: 93 dB*
- *presiune aer recomandata: 6,2 bar*

Utilizare

- *industria auto, industria aerospatiala, echipament agricol, industria grea, constructia de masini, industria de constructii navale, montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*

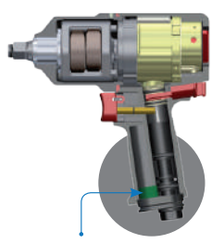




Regulator aer
(3 trepte de viteza Inainte / Inapoi)

Inapoi ***Inainte***

schimbarea directiei de mers cu o singura mana



Amortizor pentru actionare silentioasa (optional)

UNIOR

	■	L					
627570	1/2"	187	1223	1191	1F	1	1058,66

1562

Pistol pneumatic 1/2"

- *viteza de rotatie 6500 rot/min*
- *moment de torsiune max. 949 Nm*
- *presiunea maxima de aer comprimat:6, 2 Bar*
- *consum de aer comprimat 124 l/min*
- *racord de aer 1/4"*
- *capacitate maxima de strangere M18*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

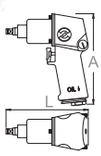
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*





UNIOR

		A	L					
615321	1/2"	192	204	949	2800	1F	1	**1303,44**



1571

Pistol pneumatic 3/4"

- *viteza de rotatie 6500 rot/min*
- *moment de torsiune max. 1016 Nm*
- *presiunea maxima de aer comprimat:6, 2 Bar*
- *consum de aer comprimat 198 l/min*
- *racord de aer 1/4"*
- *capacitate maxima de strangere M 24*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

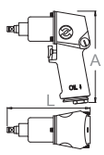
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*





UNIOR

		A	L					
615324	3/4"	240	236	1085	4550	1F	1	**2395,38**

1575

Pistol pneumatic si set de capete chei tubulare 3/4 " in cutie

- *Dimensiunea cutiei : 393 x 331 x 95*



UNIOR

617161	7	8330	1G	1	**3033,16**

1571 (3/4"), **232/4 6p** (19, 24, 27, 32, 36, 41)

1573

Pistol pneumatic reversibil de impact cu turatie variabila 3/4"

- *carcasa motor din material compozit*
- *mecanism twin hammer*
- *schimbarea sensului se realizeaza cu o singura mana*
- *buton pentru schimbarea turatiei*

Caracteristici tehnice:

- *turatie mers in gol: 5500 rpm*
- *patrat de antrenare: 3/4"*
- *cuplu maxim: 2034 Nm*
- *cuplu maxim desfacere: 3254 Nm*
- *racord aer: 3/8"*
- *diametru recomandat furtun aer: 1/2"*
- *consum de aer: 198 l/min*
- *lungime: 220 mm*
- *greutate: 3,44 kg*
- *nivel de vibratii: 11.6 m/s²*
- *nivel de zgomot: 93 dB*
- *presiune aer recomandata: 6,2 bar*

Utilizare

- *industria auto, industria aerospatiala, echipament agricol, industria grea, constructia de masini, industria de constructii navale, montari individuale*

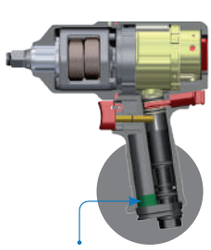
Important

- *este recomandata folosirea capetelor de impact UNIOR*





schimbarea directiei de mers cu o singura mana



Amortizor pentru actionare silentioasa (optional)

UNIOR

627571	3/4"	220	2034	3440	1F	1	**2228,57**

1591

Pistol pneumatic 1"

- *viteza de rotatie 4000 rot/min*
- *moment de torsiune max. 2439 Nm*
- *presiunea maxima de aer comprimat: 6, 2 Bar*
- *consum de aer comprimat 255 l/min*
- *racord de aer 1/2"*
- *capacitate maxima de strangere M 36*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

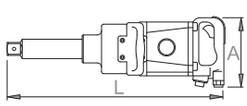
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*





UNIOR

		A	L					
615325	1"	180	495	2439	13600	1F	1	**4719,39**

1592

Pistol pneumatic 1"

- *viteza de rotatie 4000 rot/min*
- *moment de torsiune max. 2439 Nm*
- *presiunea maxima de aer comprimat:6, 2 Bar*
- *consum de aer comprimat 255 l/min*
- *racord de aer 1/2"*
- *capacitate maxima de strangere M 36*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

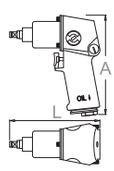
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*





UNIOR

		A	L					
615326	1"	280	307	2439	12800	1F	1	**4719,39**

1597

Ciocan pneumatic reversibil 1.1/2"

- *viteza de rotatie 3000 rot/min*
- *moment de torsiune max.4065 Nm*
- *presiunea maxima de aer comprimat:6, 2 Bar*
- *consum de aer comprimat 435 l/min*
- *racord de aer 1/2"*
- *capacitate maxima surub (piulita) M52*

Avantaje:

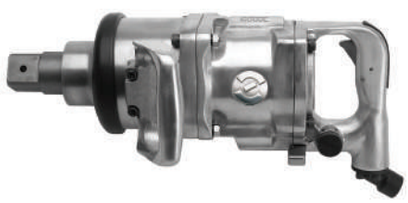
- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

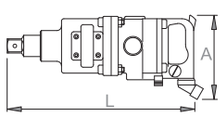
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*





UNIOR

		A	L					
617691	1.1/2"	145	465	4065	18600	1F	1	**18155,53**

1596

Ciocan pneumatic reversibil de 1.1/2"

- *viteza de rotatie 3000 rot/min*
- *moment de torsiune max.4065 Nm*
- *presiunea maxima de aer comprimat: 6, 2 Bar*
- *consum de aer comprimat 435 l/min*
- *racord de aer 1/2"*
- *capacitate maxima surub (piulita) M52*

Avantaje

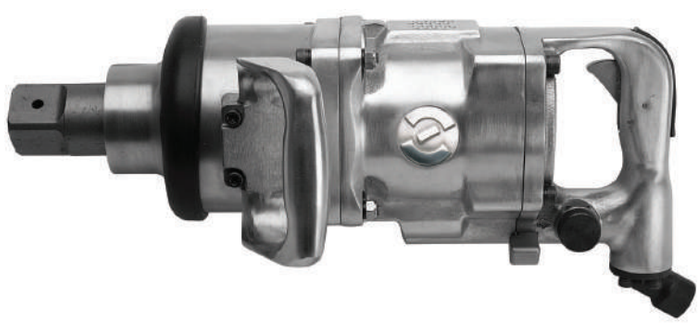
- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

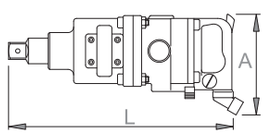
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *este recomandata folosirea capetelor de impact UNIOR*





UNIOR

		A	L					
617690	1.1/2"	145	450	3388	17800	1F	1	**13635,49**



1514

Pistol pneumatic daltuitor

- *utilizat pentru taierea tablelor, bolturilor si curatirea suprafetelor sudate, nituri,ipsos si tigle*
- *cu arc, inlocuire rapida ca parte de schimb*
- *piston percutor lungime: 70 - 67mm, 225 - 92mm*
- *diametrul interior 9,1mm*
- *lovituri pe minut: 170 - 3000, 225 - 2100*
- *consum de aer comprimat 250 l/min*
- *Racord de aer 1/4"*

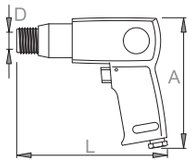
Avantaje:

- *scula usoara si compacta, folosita de asemenea in camere mici*
- *o diversitate de utilizari*
- *sistem de retinere*

Utilizare

- *industria auto*
- *taierea bucatilor de metal si a suruburilor*
- *inlaturarea cordoanelor de sudura*
- *lucrul la pereti,beton,piatra,caramida,otel,met ale usoare*





UNIOR

	L	A	D				
617714	170	150	19	1810	1F	1	**380,99**
617715	225	150	19	2160	1F	1	**448,75**

1514.1

Arc pentru 1514



UNIOR

617716	69	1E	1	**43,34**

1514.2

Dispozitiv de schimbare rapida pentru 1514

- *pentru fixarea/demontarea simpla si rapida a daltii*
- *schimbare rapida cu actionarea inelului de deblocare superior*
- *inel de deblocare striat pentru o priza maximala la schimbarea sculei*



UNIOR

617717	351	1F	1	**96,17**

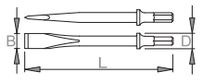
1514A1

Dalta lata

Utilizare

- *Pentru a forma si curati sudurile, a taia buloanele si cuiele, prodce sloturi sau pentru curatarea si nivelarea suprafetelor denivelate.*





UNIOR

	L	B	D				
617718	182	18	19	181	1E	1	**41,59**

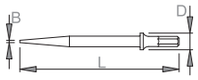
1514A2

Dalta ascutita

Utilizare

- *Inlaturarea stifturilor si a niturilor, darea de gauri*





UNIOR

	L	B	D				
617719	180	2	19	154	1E	1	**41,59**

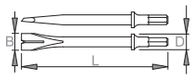
1514A3

Dalta pentru nituri si curatat sudura

Utilizare

- *pentru a inlatura niturile si zgura de sudura*





UNIOR

	L	B	D				
617720	180	20	19	179	1E	1	**41,59**

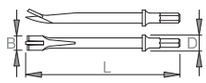
1514A4

Dalta pentru taiat tabla

Utilizare

- *pentra taierea tablelor*





UNIOR

	L	B	D				
617721	180	16.7	19	178	1E	1	**41,59**

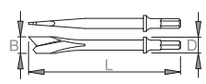
1514A5

Dalta cu varf in V

Utilizare

- *pentru taierea tablelor*





UNIOR

	L	B	D				
617722	190	19.2	19	187	1E	1	**41,59**

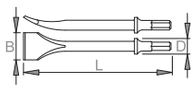
1514A6

Dalta cu varf sapa

Utilizare

- *Pentru a fasona sau curata sudurile, taierea suruburilor si a cuielor, producerea de crestaturi sau curatarea si nivelarea suprafetelor neregulate*





UNIOR

	L	B	D				
617723	178	32.8	19	207	1E	1	**41,59**

1514PB

Pistol pneumatic daltuitor cu set de dalti

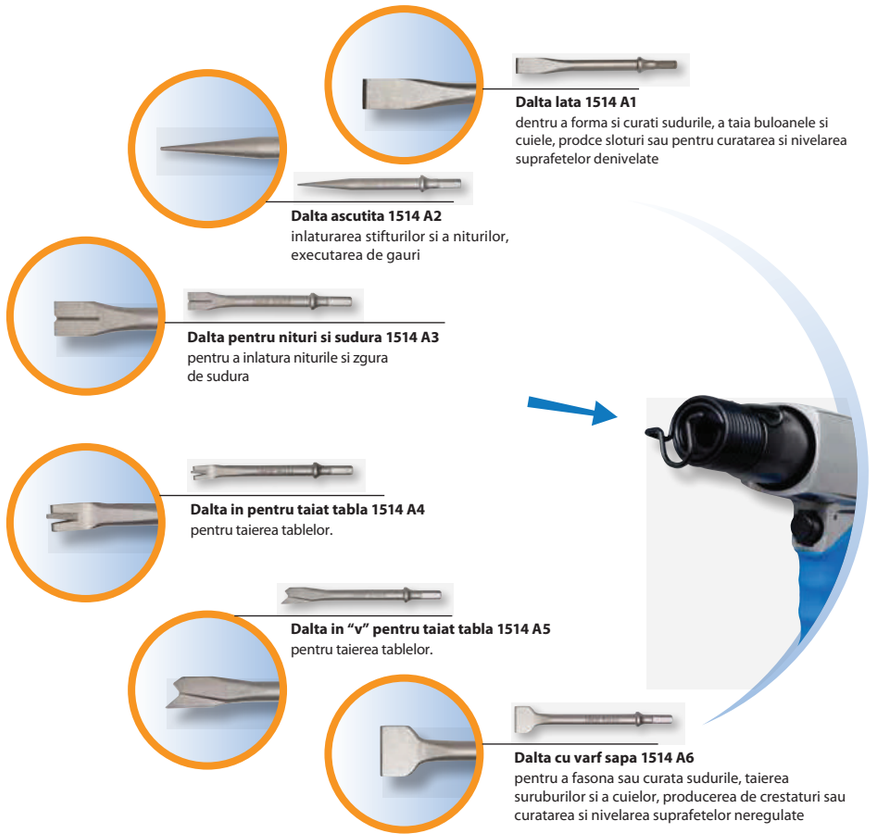
- *Dimensiunea cutiei : 307 x 260 x 70*



UNIOR

619964	7	3210	1G	1	754,82

1514 (170), **1514A1** (182),
1514A2 (180), **1514A3** (180),
1514A4 (180), **1514A5** (190),
1514A6 (178), **981PBM2** (307 x 260 x 74)



Dalta lata 1514 A1
dentru a forma si curati sudurile, a taia buloanele si cuiele, prodce sloturi sau pentru curatarea si nivelarea suprafetelor denivelate

Dalta ascutita 1514 A2
inlaturarea stifturilor si a niturilor, executarea de gauri

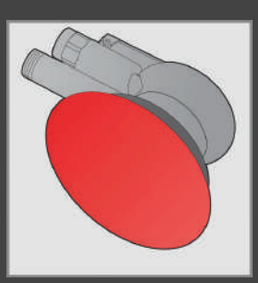
Dalta pentru nituri si sudura 1514 A3
pentru a inlatura niturile si zgura de sudura

Dalta in pentru taiat tabla 1514 A4
pentru taierea tablelor.

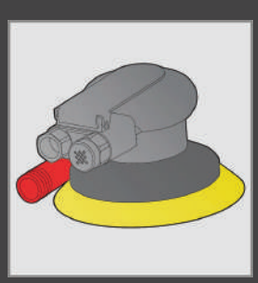
Dalta in "v" pentru taiat tabla 1514 A5
pentru taierea tablelor.

Dalta cu varf sapa 1514 A6
pentru a fasona sau curata sudurile, taierea suruburilor si a cuielor, producerea de crestaturi sau curatarea si nivelarea suprafetelor neregulate

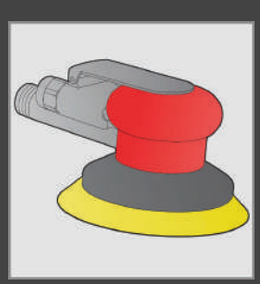
1510



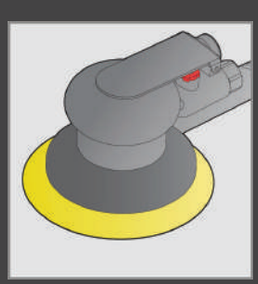
Masina pneumatica de slefuit



exhaustarea particulelor intr-un sac pentru o suprafata de lucru curata.



forma ergonomica a manerului asigura o prindere ferma si impiedica alunecarea



buton manual de on/off

1510

Masina pneumatica de slefuit

- *viteza de rotatie 1000 rotatii/minut*
- *presiunea maxima de aer comprimat: 6, 2 Bar*
- *consum de aer comprimat 368 l/min*
- *racord de aer 1/4"*

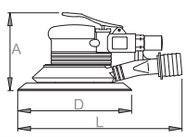
Avantaje:

- *forma ergonomica a manerului asigura o prindere ferma si impiedica alunecarea*
- *utilizabil atat pentru mana dreapta cat si pentru mana stanga*
- *silentios si usor de manevrat*
- *buton manual de on/off*
- *exhaustarea particulelor intr-un sac pentru o suprafata de lucru curata.*
- *furtun robust si flexibil pentru curatirea prafului*
- *nu sunt permise colturi pe suprafata de lucru*
- *conditii mai bune de lucru datorita vibratiilor minime*
- *putere mare bazata pe greutate (1.2 kg)*

Utilizare

- *ateliere de tinichigerie*
- *pregatirea diferitelor suprafete de lucru pentru operatiile ulterioare*
- *ideal pentru slefuirea suprafetelor metalice, metale si lemn*
- *platan slefuitorului este VELCRO™sistem care asigura slefuirea simpla, usoara, rapida si in siguranta a diferitelor parti de slefuit. Sistemul este utilizat pentru diverse ocazii , cel mai cunoscut exemplu pantofii de sport cu sistem VELCRO™*





UNIOR

№	L	A	D				
617733	2.5	220	105	150	1600	1F	1	1668,38
617713	5	220	105	150	1615	1F	1	1715,47

1516

Biax pneumatic drept

- *viteza de rotatie 25000 rotatii/minut*
- *presiunea maxima de aer comprimat: 6,2 Bar*
- *consum de aer comprimat 113 l/min*
- *racord de aer 1/4"*
- *capacitate de prindere mandrina 6 mm*
- *diametrul interior furtun 10mm*

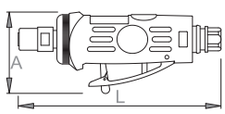
Avantaje:

- *levier de siguranta care previne pornirea accidentala*
- *prindere simpla a discurilor de slefuire si a celorlalte parti/extensii*
- *putere mare bazata pe marime*
- *scula mica si compacta*
- *reglare continua si variabila a rotatiei*

Utilizare

- *polizare precisa*
- *polizare completa*
- *scula industriala*
- *industria auto*
- *industria aerospatiala*
- *curatarea sudurii*
- *curatarea betonului si a suprafetelor de pereti*
- *curatirea suprafetelor de lemn*
- *inlaturarea vopselelor si a lacurilor*
- *inlaturarea ruginii*
- *curatire rulmenti*
- *curatire valve motor*
- *curatire piniane si ambreiaje*
- *alte suprafete diverse*



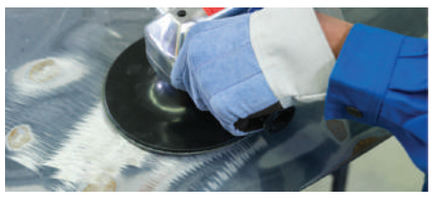




UNIOR

	L	A				
617731	155	60	390	1F	1	471,76





1516A

Biax pneumatic unghiular

- *viteza de rotatie 20000 rotatii/minut*
- *presiunea maxima de aer comprimat: 6,2 Bar*
- *consum de aer comprimat 113 l/min*
- *racord de aer 1/4"*
- *capacitate de prindere mandrina 6 mm*
- *diametrul interior furtun 10 mm*

Avantaje:

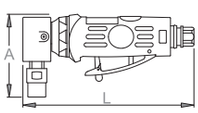
- *aceasta varianta unghiulara permite accesul in zone dificile in care in mod normal nu se poate face polizarea*
- *levier de siguranta care previne pornirea accidentala*
- *prindere simpla a discurilor de slefuire si a celorlalte parti/extensii*
- *putere mare bazata pe marime*
- *scula mica si compacta*
- *reglare continua si variabila a rotatiei*

Utilizare

- *polizare precisa*
- *polizare completa*
- *scula industriala*
- *industria auto*
- *industria aerospatiala*
- *curatarea sudurii*
- *curatarea betonului si a suprafetelor de pereti*
- *curatirea suprafetelor de lemn*
- *inlaturarea vopselelor si a lacurilor*
- *inlaturarea ruginii*
- *curatire rulmenti*
- *curatire valve motor*
- *curatire pinioane si ambreiaje*
- *alte suprafete diverse*







UNIOR

	L	A				
617732	162	76	740	1F	1	640,61



1517S

Masina pneumatica de slefuit

- *viteza de rotatie 4500 rotatii/minut*
- *presiunea maxima de aer comprimat: 6,2 Bar*
- *consum de aer comprimat 340 l/min*
- *racord de aer 1/4"*
- *racord filetat 5/8"*

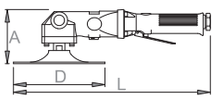
Avantaje:

- *scula mica si compacta*
- *utilizabil atat pentru mana dreapta cat si pentru mana stanga*
- *maner interschimbabil*
- *maner rotitor*

Utilizare

- *curatirea sudurii*
- *curatirea zunelor ascutite*
- *curatirea suprafetelor mici accidentate*





UNIOR

	L	A	D				
617729	375	100	175	2610	1F	1	741,59

1518

Polizor pneumatic unghiular

- *viteza de rotatie 11000 rotatii/minut*
- *presiunea maxima de aer comprimat: 6,2 Bar*
- *consum de aer comprimat 170 l/min*
- *racord de aer 1/4"*

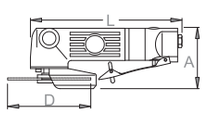
Avantaje:

- *maner interschimbabil*
- *levier de siguranta care previne pornirea accidentala*

Utilizare

- *protectia partilor in miscare*
- *folosit de asemenea in locuri inguste*
- *scula industriala*
- *curatarea sudurii*
- *curatarea betonului si a suprafetelor de pereti*
- *curatirea suprafetelor de lemn*
- *inlaturarea vopselelor si a lacurilor*
- *inlaturarea ruginii*
- *taiere profile si table*
- *alti utilizatori casnici*





UNIOR

	L	A	D				
617730	230	90	125	2175	1F	1	817,38

1515

Pistol de gaurire pneumatic

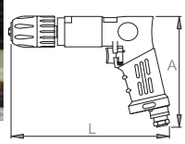
- *cu schimbarea sensului de rotatie*
- *viteza de rotatie 1800 rotatii/minut*
- *presiunea maxima de aer comprimat:6, 2 Bar*
- *consum de aer comprimat 113 l/min*
- *racord de aer 1/4"*
- *capacitate de prindere mandrina 1,0 - 10mm*
- *racord filetat 3/8", 24 UNF*
- *diametrul interior furtun 10mm*

Avantaje:

- *putere mare*
- *greutate mica, compact si usor de manevrat*
- *maner rotitor*
- *maner cu forma ergonomica pentru lucru fara efort*
- *maner protejat pentru micsorarea vibratiilor*
- *schimbare de sens*
- *sistem de schimbare rapida*







UNIOR

	L	A				
617726	190	150	1360	1F	1	531,45

1515H

Pistol pneumatic de gaurit cu maner lateral

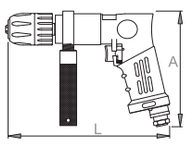
- *cu schimbarea sensului de rotatie*
- *viteza de rotatie 800 rotatii/minut*
- *presiunea maxima de aer comprimat:6, 2 Bar*
- *consum de aer comprimat 113 l/min*
- *racord de aer 1/4"*
- *capacitate de prindere mandrina 1,5 - 13mm*
- *racord filetat 3/8", 24 UNF*
- *diametrul interior furtun 10mm*

Avantaje:

- *putere mare*
- *greutate mica, compact si usor de manevrat*
- *maner reglabil pentru o prindere buna*
- *maner rotitor*
- *maner cu forma ergonomica pentru lucru fara efort*
- *maner protejat pentru micsorarea vibratiilor*
- *schimbare de sens*
- *sistem de schimbare rapida*







UNIOR

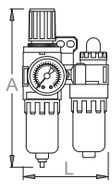
	L	A				
617727	220	150	1570	1F	1	854,94

1500

Filtru regulator si ungator pneumatic 1/4"

- *racord de aer 1/4"*
- *presiune maxima de aer comprimat: 9,5 Bar*
- *debit maxim 600 l/min*
- *presiunea de lucru 0,5 - 8,5 Bar*
- *temperatura de lucru 5 - 60 °C*
- *grad de filtrare 5 microni*
- *capacitate filtru 15ml*
- *capacitate lubrificator 25ml*





UNIOR

	L	A				
617735	90	155	491	1F	1	465,92

1500C

Set de pahare pentru 1500



UNIOR

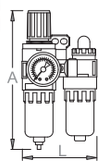
617738	71	1E	1	116,36

1501

Filtru regulator si ungator pneumatic 3/8"

- *racord de aer 3/8"*
- *presiune maxima de aer comprimat: 9,5 Bar*
- *debit maxim1800 l/min*
- *presiunea de lucru 0,5 - 8,5 Bar*
- *temperatura de lucru 5 - 60 °C*
- *grad de filtrare 5 microni*
- *capacitate filtru 60ml*
- *capacitate ungator 90ml*





UNIOR

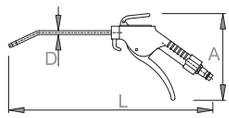
	L	A				
617736	150	220	1285	1F	1	682,44

1508A

Pistol de curatire pneumatic

- *presiunea maxima de aer comprimat: 10,9 bar*
- *consum de aer comprimat 220 l/min*





UNIOR

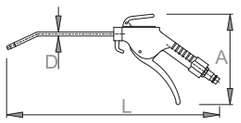
	L	A	D				
617767	260	135	6	153	1E	10	47,28

1508B

Pistol pneumatic de curatire lung

- *presiunea maxima de aer comprimat: 10,9*
- *consum de aer comprimat 220 l/min*





UNIOR

	L	A	D				
617768	420	135	6	178	1E	10	67,23

1501C

Set de pahare pentru 1501 si 1502



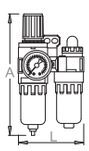
617739	175	1E	1	182,13

1502

Filtru regulator si ungator pneumatic 1/2"

- *racord de aer 1/2"*
- *presiune maxima de aer comprimat: 9,5 Bar*
- *presiunea de lucru 0,5 - 8,5 Bar*
- *temperatura de lucru 5 - 60 °C*
- *grad de filtrare 5 microni*
- *debit maxim 2300 l/min*
- *capacitate filtru 60ml*
- *capacitate ungator 90ml*





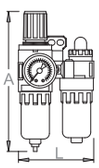
617737	150	220	1265	1F	1	754,34

1503

Filtru regulator si gresor pneumatic 3/4"

- *racord aer 3/4"*
- *presiune maxima de aer comprimat: 9,5 Bar*
- *presiunea de lucru 0,5 - 8,5 Bar*
- *temperatura de lucru 5 - 60 °C*
- *grad de filtrare 5 microni*
- *debit maxim 2500 l/min*
- *capacitate filtru 60ml*
- *capacitate ungator 90ml*





621473	190	240	1805	1F	1	870,31

1500PG

Manometru de presiune pentru 1500



617741	63	1F	1	50,44

1501PG

Manometru de presiune pentru 1501 in 1502

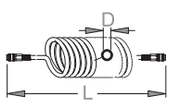


617742	16	1F	1	59,49

1505

Furtun pneumatic elicoidal





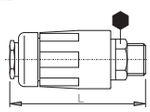
617743	9	6.5 x 10	850	1E	1	144,14
617744	9	8 x 12	894	1E	1	176,19
617745	9	11 x 16	1526	1E	1	288,27
617746	12	6.5 x 10	835	1E	1	222,02
617747	12	8 x 12	1076	1E	1	280,97
617748	12	11 x 16	1847	1E	1	373,84

1506PZ

Cuplaj cu filet exterior

- *carcasa de plastic*
- *filet exterior*





617788	R1/4"	19	72	133	1E	1	179,65
617789	R3/8"	19	70	137	1E	1	179,65
617790	R1/2"	22	75	145	1E	1	179,65

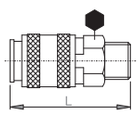


1506KZ7

Cuplaj cu filet exterior

- *carcasa metalica*
- *filet exterior*





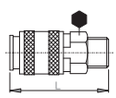
617793	R1/4"	20	58	98	1E	1	43,25
617794	R3/8"	20	54	101	1E	1	44,17

1506KZ10

Cuplaj cu filet exterior

- *carcasa metalica*
- *filet exterior*





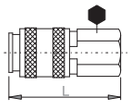
621452	3/8"	24	62.5	149	1E	1	130,71
621453	1/2"	24	65.0	156	1E	1	130,71
621454	3/4"	27	67.1	191	1E	1	146,42

1506KN7

Cuplaj cu filet exterior

- *carcasa metalica*
- *filet interior*





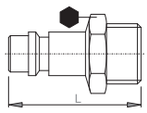
617795	R1/4"	20	54.5	113	1E	1	45,05
617796	R3/8"	20	55	105	1E	1	45,05

1507Z7

Cuplaj cu filet exterior

- *diametrul interior furtun Ø7mm*
- *filet exterior*





UNIOR

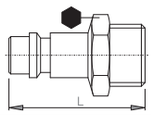
			L				
617797	R1/4"	14	34	24	1E	1	**10,31**
617798	R3/8"	19	36.5	34	1E	1	**11,33**
618483	R1/2"	22	39	40	1E	1	**18,39**

1507Z10

Cuplaj cu filet exterior

- *filet exterior*
- *diametrul furtunului interior 10mm*





UNIOR

			L				
621455	3/8"	17	39.4	38	1E	1	**28,55**
621456	1/2"	24	39.4	53	1E	1	**33,86**
621457	3/4"	27	48.5	86	1E	1	**46,89**

OP1.4/2

Cuier pentru scule pneumatice cu admisia aerului de 1/4 "



UNIOR

623315	110	1V	1	**21,36**

650.1/6

Dalta lata SDS plus



UNIOR

	L	D	b				
616831	250	14	20	260	4B	10	**65,91**

650.2/6

Dalta ascutita SDS plus



UNIOR

	L	D				
616832	250	14	246	4B	10	**65,91**





SCULE HIDRAULICE

KUDOS

este un producator profesional de scule hidraulice: clesti hidraulici de taiat, clesti hidraulici de sertizat si pompe hidraulice. Produsele au fost dezvoltate cu ajutorul celor mai moderne tehnologii americane si europene, respectand, in totalitate, cerintele standardelor ISO 9001, ISO 14001, IECQ QC 080001, OHSAS 18000 si SA 8000.

KuDos®
Professional Hydraulic Tools.

KuDos® Professional Hydraulic Tools.

Certificari

ISO 9001:2008
Certificat Nr.: TA254-QC-EC

ISO 9001:2008

ISO 14001:2004
Certificat Nr.: TA254-QC-EC

ISO 14001:2004

IECQ QC 080001
Certificat Nr.:
TW-HSPM-1237-1

IECQ QC 080001

OHSAS 18001:2007
Certificat Nr.: 2008006

OHSAS 18001:2007



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HD-0650

Cleste de sertizare cabluri, cu bacuri rotative interschimbabile

• cutie plastic



	Capacitate	Ambalare	
HD-0650	6-50 mm²	1	**660,98**
	Capacitate de sertizare	6-50 mm²	
	Lungime	390 mm	
	Greutate	1,1 kg	

HD-OD3

Cleste de sertizare cabluri, cu bacuri tp “W-D”

• cutie plastic
• bacurile se achizitioneaza separat



	Capacitate	Ambalare	
HD-OD3	-	1	**1746,89**
	Forta de sertizare	4,5 tone	
	Lungime	645 mm	
	Greutate	3,2 kg	

HD-06120

Cleste de sertizare cabluri, cu bacuri rotative interschimbabile

• cutie plastic



	Capacitate	Ambalare	
HD-06120	10-120 mm²	1	**755,41**
	Capacitate de sertizare	10-120 mm²	
	Lungime	650 mm	
	Greutate	2,9 kg	

KCV-50

Cleste taietor cu acumulator 18 V Li-ion

• cutie plastic
• se livreaza cu acumulator 12 V si incarcator



Cablu polietilena 600V-CV325 mm² (31 mm OD)
Cablu polietilena 600V-CV150 mm² x 3 (46 mm OD)
Cablu polietilena 600V-CV500 mm² (38 mm OD)
Cablu polietilena 600V-CVT150 mm² (45 mm OD)
Cablu multistrat izolat VVR150 mm² (47 mm OD) 3 straturi
Cablu cupru moale IV500 mm² (35 mm OD)
Cablu cupru dur 150 mm² (21 mm OD)

PVC Cable | Soft Steel Bar | CU / AL

	Capacitate	Ambalare	
KCV-50	Φ 50 mm	1	**6389,51**
	Capacitate taiere cabluri neferoase	Φ 50 mm	
	Tip motor	17 V CC	
	Lungime	317 mm	
	Greutate	2,2 kg	

HD-25150

Cleste de sertizare cabluri, cu bacuri rotative interschimbabile

• cutie plastic



	Capacitate	Ambalare	
HD-25150	25-150 mm²	1	**755,41**
	Capacitate de sertizare	25-150 mm²	
	Lungime	650 mm	
	Greutate	2,9 kg	

KCV-54

Cleste taietor cu acumulator 18 V Li-ion

• cutie plastic
• se livreaza cu acumulator 18 V si incarcator



Cablu de polietilena 600V-CV325 mm² (31 mm OD)
Cablu multistrat cu izolatie VVR150mm² (47 mm OD) 3 straturi
SB-ACSR ACSR120mm² (18,6 mm OD)
Cablu din aluminiu dur HAL-OC400mm² (31,9 mm OD)
Cablu de cupru dur OE-OC150mm² (21mm OD)
Cablu SS 0,4 mm, 400 CPC-F-SS (CR)
Cablu LCCP fara suport de sarma cu diametrul exterior de 54 mm

PVC Cable | ACSR Cable | Soft Steel Bar | CU / AL

	Capacitate	Ambalare	
KCV-54	Φ 54 mm	1	**11614,43**
	Capacitate taiere cabluri neferoase	Φ 54 mm	
	Capacitate taiere cabluri telefonice	cu 400 conductori	
	Tip motor	18 V CC	
	Lungime	338 mm	
	Greutate	3,0 kg	

HD-BGD3

Cleste de sertizare cabluri, cu bacuri tp “W-BG”

• cutie plastic
• bacurile se achizitioneaza separat



	Capacitate	Ambalare	
HD-BGD3	-	1	**1746,89**
	Forta de sertizare	4,5 tone	
	Lungime	645 mm	
	Greutate	3,2 kg	

KCV-54AC

Cleste taietor cu acumulator 18 V Li-ion

• cutie plastic
• se livreaza cu acumulator 18 V si incarcator



KuDos Professional Hydraulic Tools

Cablu polietilena 600V-CV325 mm² (31 mm OD)
Cablu polietilena 600V-CV150 mm² x 3 (46 mm OD)
Cablu polietilena 600V-CV500 mm² (38 mm OD)
Cablu polietilena 600V-CVT150 mm² (45 mm OD)
Cablu multistrat izolat VVR150 mm² (47 mm OD) 3 straturi
Cablu cupru moale IV500 mm² (35 mm OD)
Cablu cupru dur 150 mm² (21 mm OD)

PVC Cable | Soft Steel Bar | CU / AL

	Capacitate	Ambalare	
KCV-54AC	Φ 54 mm	1	**9600,00**
	Capacitate taiere cabluri neferoase	Φ 54 mm	
	Tip motor	18 V CC	
	Lungime	337 mm	
	Greutate	2,9 kg	

KCV-65

Cleste taietor cu acumulator 18 V Li-ion

• cutie plastic
• se livreaza cu acumulator 18 V si incarcator



KuDos Professional Hydraulic Tools

Cablu polietilena 600V-CV325 mm² (31 mm OD)
Cablu polietilena 600V-CV150 mm² x 3 (46 mm OD)
Cablu polietilena 600V-CV500 mm² (38 mm OD)
Cablu polietilena 600V-CVT150 mm² (45 mm OD)
Cablu multistrat izolat VVR150 mm² (47 mm OD) 3 straturi
Cablu cupru moale IV500 mm² (35 mm OD)
Cablu cupru dur 150 mm² (21 mm OD)

PVC Cable | Soft Steel Bar | CU / AL

	Capacitate	Ambalare	
KCV-65	Φ 65 mm	1	**8716,10**
	Capacitate taiere cabluri neferoase	Φ 65 mm	
	Tip motor	18 V CC	
	Lungime	340 mm	
	Greutate	3,5 kg	

LEC-32

Cleste electrohidraulic de sertizat cu acumulator 14,4 V NiMh

• cutie plastic si curea umar
• se livreaza cu acumulator 14,4 V si incarcator



KuDos Professional Hydraulic Tools

accepta toate bacurile utilizate de Alcoa, Burndy, T&B, Klauke, Cembre si Blackburn bacuri tip U 12 ton potrivit pentru terminale cu grosimea peretilor mai mica decat DIN 46235

HEXAGONAL | TERMINAL | C-CONNECT | SPEED DELIVERY

	Capacitate	Ambalare	
LEC-32	400 mm²	1	**15580,33**
	Capacitate maxima	400 mm²	
	Forta exercitata	12,7 tone (125 kN)	
	Deschiderea falcilor	32 mm	
	Lungime	328 mm	
	Greutate	7,0 kg	

LEC-U27

Cleste electrohidraulic de sertizat cu acumulator 14,4 V Li-ion

• cutie plastic si curea umar
• se livreaza cu acumulator 14,4 V si incarcator



KuDos Professional Hydraulic Tools

HEXAGONAL | TERMINAL | C-CONNECT | SPEED DELIVERY | INDENT TYPE

	Capacitate	Ambalare	
LEC-U27	400 mm²	1	**15895,08**
	Capacitate maxima	400 mm²	
	Forta exercitata	12,7 tone (125 kN)	
	Deschiderea falcilor	27 mm	
	Lungime	323 mm	
	Greutate	7,0 kg	

LEC-S45

Cleste electrohidraulic de taiat cu acumulator 14,4 V Li-ion

• cutie plastic si curea umar
• se livreaza cu acumulator 14,4 V si incarcator



KuDos Professional Hydraulic Tools

pentru cabluri cu insertii de cupru, cabluri aluminiu, ASCR

Bare Strands | ACSR Cable | GUY WIRE | Soft Steel Bar | CU / AL

	Capacitate	Ambalare	
LEC-S45	Φ 45 mm	1	**18334,43**
	Capacitate maxima	Φ 45 mm	
	Forta exercitata	9,7 tone (96 kN)	
	Necesar ulei	70 cc	
	Lungime	328 mm	
	Greutate	7,1 kg	

LEC-C85

Cleste electrohidraulic de taiat cu acumulator 14,4 V Li-ion

- *cutie plastic si curea umar*
- *se livreaza cu acumulator 14,4 V si incarcator*



KuDos Professional Hydraulic Tools

pentru cabluri de cupru, cabluri aluminiu

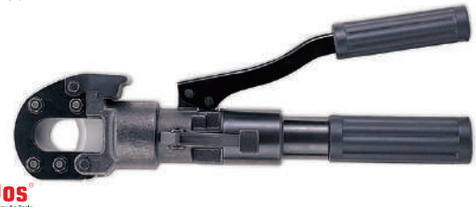
CU / AL | Soft Steel Bar | SPEED DELIVER

	Capacitate	Ambalare	
LEC-C85	Φ 85 mm	1	22583,61
	Capacitate maxima	Φ 85 mm	
	Forta exercitata	5,6 tone (56 kN)	
	Necesar ulei	73 cc	
	Lungime	345 mm	
	Greutate	8,0 kg	

HYSC-24

Cleste hidraulic pentru taiat cabluri max Ø45 mm

- *husa textila*



KuDos Professional Hydraulic Tools

Bare Strands | ACSR Cable | GUY WIRE | Soft Steel Bar | CU / AL

Cutite de schimb

HYSC-24#11	495,26

	Capacitate	Ambalare	
HYSC-24	Φ 45 mm	1	5193,44
	Capacitate maxima	Φ 45 mm	
	Forta exercitata	6,7 tone (66 kN)	
	Necesar ulei	56 cc	
	Presiune maxima	700 bar	
	Lungime	360 mm	
	Greutate	2,7 kg	

HYSC-32

Cleste hidraulic pentru taiat cabluri max Ø32 mm

- *geanta textila*

KuDos Professional Hydraulic Tools



Bare Strands | ACSR Cable | GUY WIRE | Soft Steel Bar | CU / AL

Cutite de schimb

HYSC-32#56	577,81

	Capacitate	Ambalare	
HYSC-32	Φ 32 mm	1	7632,79
	Capacitate maxima	Φ 32 mm	
	Forta exercitata	14,3 tone (141 kN)	
	Necesar ulei	165 cc	
	Presiune maxima	700 bar	
	Lungime	580 mm	
	Greutate	9,1 kg	

HYSC-45

Cleste hidraulic pentru taiat cabluri max Ø45 mm

- *geanta textila*

KuDos Professional Hydraulic Tools



Bare Strands | ACSR Cable | GUY WIRE | Soft Steel Bar | CU / AL | SPEED DELIVER

	Capacitate	Ambalare	
HYSC-45	Φ 45 mm	1	7081,97
	Capacitate maxima	Φ 45 mm	
	Forta exercitata	9,7 tone (95 kN)	
	Necesar ulei	147 cc	
	Presiune maxima	700 bar	
	Lungime	683 mm	
	Greutate	6,8 kg	

HYCC-050

Cleste hidraulic pentru taiat cabluri max Ø50 mm

- *cap rotativ la 180º pentru operare facila*
- *geanta textila*



KuDos Professional Hydraulic Tools

CU / AL | SPEED DELIVER

	Capacitate	Ambalare	
HYCC-050	Φ 50 mm	1	5350,82
	Capacitate maxima	Φ 50 mm	
	Forta exercitata	5 tone (49 kN)	
	Necesar ulei	89 cc	
	Presiune maxima	700 bar	
	Lungime	486 mm	
	Greutate	3,9 kg	

HYCC-P85

Cleste hidraulic pentru taiat cabluri max Ø85 mm

- *cap rotativ la 180º pentru operare facila*
- *geanta textila*



CU / AL | SPEED DELIVER

KuDos Professional Hydraulic Tools

Cutite de schimb

HYCC-P85#57	660,13

	Capacitate	Ambalare	
HYCC-P85	Φ 85 mm	1	7554,10
	Capacitate maxima	Φ 85 mm	
	Forta exercitata	5 tone (49 kN)	
	Necesar ulei	145 cc	
	Presiune maxima	700 bar	
	Lungime	716 mm	
	Greutate	9,7 kg	

TC-085

Cleste hidraulic pentru taiat cabluri max Ø85 mm

- *cap rotativ la 180º pentru operare facila*
- *geanta textila*



KuDos Professional Hydraulic Tools | CU / AL | SPEED DELIVER

Cutite de schimb

TC-085#4	660,13

	Capacitate	Ambalare	
TC-085	Φ 85 mm	1	**7160,66**
	Capacitate maxima	Φ 85 mm	
	Forta exercitata	5,6 tone (56 kN)	
	Necesar ulei	168 cc	
	Presiune maxima	700 bar	
	Lungime	667 mm	
	Greutate	8,5 kg	

HYSC-20HE

Cap hidraulic pentru taiat cabluri max Ø20 mm

- *geanta textila*



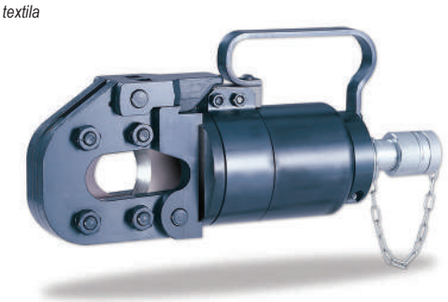
KuDos Professional Hydraulic Tools | Bare Strands | ACSR Cable | GUY WIRE | Soft Steel Bar | CU / AL

	Capacitate	Ambalare	
HYSC-20HE	Φ 20 mm	1	**3304,92**
	Capacitate maxima	Φ 20 mm	
	Forta exercitata	5,3 tone (52 kN)	
	Necesar ulei	19 cc	
	Presiune maxima	700 bar	
	Lungime	240 mm	
	Greutate	2,0 kg	

HYSC-32HE

Cap hidraulic pentru taiat cabluri max Ø32 mm

- *geanta textila*



KuDos Professional Hydraulic Tools | Bare Strands | ACSR Cable | GUY WIRE | Soft Steel Bar | CU / AL

	Capacitate	Ambalare	
HYSC-32HE	Φ 32 mm	1	**5193,44**
	Capacitate maxima	Φ 32 mm	
	Forta exercitata	25,4 tone (249 kN)	
	Necesar ulei	135 cc	
	Presiune maxima	700 bar	
	Lungime	300 mm	
	Greutate	8,9 kg	

HYCC-35HE

Cap hidraulic pentru taiat cabluri max Ø35 mm

- *geanta textila*



KuDos Professional Hydraulic Tools | CU / AL

	Capacitate	Ambalare	
HYCC-35HE	Φ 35 mm	1	**5366,56**
	Capacitate maxima	Φ 35 mm	
	Forta exercitata	24,4 tone (249 kN)	
	Necesar ulei	135 cc	
	Presiune maxima	700 bar	
	Lungime	300 mm	
	Greutate	8,9 kg	

HYSC-55HE

Cap hidraulic pentru taiat cabluri max Ø55 mm

- *geanta textila*



KuDos Professional Hydraulic Tools | Bare Strands | ACSR Cable | GUY WIRE | Soft Steel Bar | CU / AL

	Capacitate	Ambalare	
HYSC-55HE	Φ 55 mm	1	**7081,97**
	Capacitate maxima	Φ 55 mm	
	Forta exercitata	12,7 tone (125 kN)	
	Necesar ulei	89 cc	
	Presiune maxima	700 bar	
	Lungime	365 mm	
	Greutate	7,2 kg	

HYCC-P85HE

Cap hidraulic pentru taiat cabluri max Ø85 mm

- *geanta textila*



KuDos Professional Hydraulic Tools | CU / AL

	Capacitate	Ambalare	
HYCC-P85HE	Φ 85 mm	1	**4957,38**
	Capacitate maxima	Φ 85 mm	
	Forta exercitata	5 tone (49 kN)	
	Necesar ulei	65 cc	
	Presiune maxima	700 bar	
	Lungime	430 mm	
	Greutate	6,8 kg	

TC-085HE

Cap hidraulic pentru taiat cabluri max Ø85 mm

• *geanta textila*



CU / AL

	Capacitate	Ambalare	
TC-085HE	Φ 85 mm	1	**4847,21**
	Capacitate maxima	Φ 85 mm	
	Forta exercitata	5,6 tone (56 kN)	
	Necesar ulei	73 cc	
	Presiune maxima	700 bar	
	Lungime	373 mm	
	Greutate	4,9 kg	

HYCC-P100HE

Cap hidraulic pentru taiat cabluri max Ø100 mm

• *geanta textila*



CU / AL

	Capacitate	Ambalare	
HYCC-P100HE	Φ 100 mm	1	**7239,34**
	Capacitate maxima	Φ 100 mm	
	Forta exercitata	8,8 tone (87 kN)	
	Necesar ulei	140 cc	
	Presiune maxima	700 bar	
	Lungime	544 mm	
	Greutate	12,7 kg	

HYCC-105HE

Cap hidraulic pentru taiat cabluri max Ø105 mm

• *geanta textila*



CU / AL

	Capacitate	Ambalare	
HYCC-105HE	Φ 100 mm	1	**8577,05**
	Capacitate maxima	Φ 105 mm	
	Forta exercitata	10,2 tone (100 kN)	
	Necesar ulei	178 cc	
	Presiune maxima	700 bar	
	Lungime	590 mm	
	Greutate	13,2 kg	

TC-120HE

Cap hidraulic pentru taiat cabluri max Ø120 mm

• *geanta textila*



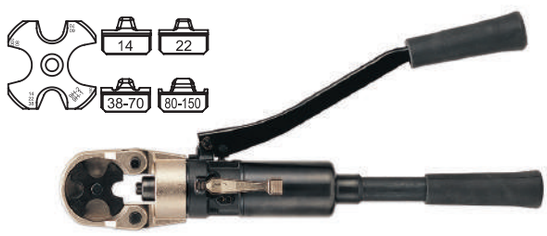
CU / AL

	Capacitate	Ambalare	
TC-120HE	Φ 120 mm	1	**10119,34**
	Capacitate maxima	Φ 120 mm	
	Forta exercitata	10,6 tone (105 kN)	
	Necesar ulei	193 cc	
	Presiune maxima	700 bar	
	Lungime	560 mm	
	Greutate	9,6 kg	

9H-150

Cleste hidraulic pentru sertizat max 150 mm²

• *pentru terminale neizolate*
• *cutie plastic*



INDENT TYPE TERMINAL SPEED DELIVERY

	Capacitate	Ambalare	
9H-150	150 mm²	1	**4642,62**
	Capacitate maxima	150 mm²	
	Forta exercitata	12,7 tone (125 kN)	
	Necesar ulei	138 cc	
	Presiune maxima	700 bar	
	Lungime	528 mm	
	Greutate	5,0 kg	

HYCP-185

Cleste hidraulic pentru sertizat max 185 mm²

• *include bacuri HYCP 185 (AHE dies) AHE 1016/2535/5070/95120/150/185*
• *pentru bacuri tip BEKU*
• *cutie plastic*



HEXAGONAL SPEED DELIVERY

	Capacitate	Ambalare	
HYCP-185	185 mm²	1	**3619,67**
	Capacitate maxima	185 mm²	
	Forta exercitata	5,3 tone (52 kN)	
	Necesar ulei	57 cc	
	Presiune maxima	550 bar	
	Lungime	373 mm	
	Greutate	2,1 kg	

HYCP-240

Cleste hidraulic pentru sertizat max 240 mm²

- *include bacuri HYCP 240 (AHE dies) AHE 1016/2535/5070/95120/150/185/240*
- *cursa reglabila 10-15 mm pentru minimizarea actionarii pompei*
- *pentru bacuri tip BEKU*
- *cutie plastic*



HEXAGONAL TERMINAL

	Capacitate	Ambalare	
HYCP-240	240 mm²	1	**4406,56**
	Capacitate maxima	240 mm²	
	Forta exercitata	5,3 tone (52 kN)	
	Necesar ulei	57 cc	
	Presiune maxima	550 bar	
	Lungime	377 mm	
	Greutate	2,4 kg	

PH-240

Cleste hidraulic pentru sertizat max 240 mm²

- *include bacuri PH 240 (Cu dies) CU 16/25/35/50/70/95/120/150/185/240*
- *pentru bacuri Alcoa, Burndy, T&B, Klauke, Cembreand Blackburn*
- *cap rotativ la 180º pentru operare facila*
- *pentru bacuri semirotunde*
- *cutie plastic*



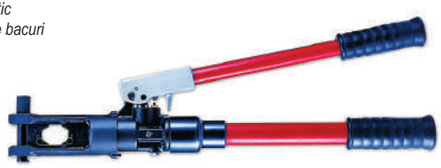
HEXAGONAL TERMINAL

	Capacitate	Ambalare	
PH-240	240 mm²	1	**6299,94**
	Capacitate maxima	240 mm²	
	Forta exercitata	6,2 tone (61 kN)	
	Necesar ulei	55 cc	
	Presiune maxima	550 bar	
	Lungime	427 mm	
	Greutate	3,2 kg	

UCP-240

Cleste hidraulic pentru sertizat max 240 mm²

- *cap rotativ la 180º pentru operare facila*
- *pentru bacuri BEKU*
- *cutie plastic*
- *nu include bacuri*



HEXAGONAL TERMINAL Fiber Glass

	Capacitate	Ambalare	
UCP-240	240 mm²	1	**5350,82**
	Capacitate maxima	240 mm²	
	Forta exercitata	8,8 tone (86 kN)	
	Necesar ulei	121 cc	
	Presiune maxima	700 bar	
	Lungime	630 mm	
	Greutate	4,6 kg	

UCP-2712

Cleste hidraulic pentru sertizat max 400 mm²

- *include bacuri UCP-2712 (Cu dies) CU 16/25/35/50/70/95/120/150/185/240/300/400*
- *cap rotativ la 180º pentru operare facila*
- *pentru bacuri Alcoa, Burndy, T&B, Klauke, Cembreand si Blackburn*
- *cutie plastic*



HEXAGONAL INDENT TYPE TERMINAL C-CONNECT Fiber Glass

	Capacitate	Ambalare	
UCP-2712	400 mm²	1	**7081,97**
	Capacitate maxima	400 mm²	
	Forta exercitata	12,7 tone (125 kN)	
	Necesar ulei	147 cc	
	Presiune maxima	700 bar	
	Lungime	590 mm	
	Greutate	6,2 kg	

UB-412

Cleste hidraulic pentru sertizat max 400 mm²

- *include bacuri UB-412 (Cu dies) CU 16/25/35/50/70/95/120/150/185/240/300/400*
- *cap rotativ la 180º pentru operare facila*
- *deschiderea falcilor 32 mm*
- *pentru bacuri Alcoa, Burndy, T&B, Klauke, Cembreand si Blackburn*
- *cutie plastic*



HEXAGONAL TERMINAL C-CONNECT Fiber Glass

	Capacitate	Ambalare	
UB-412	400 mm²	1	**6609,84**
	Capacitate maxima	400 mm²	
	Forta exercitata	11,6 tone (114 kN)	
	Necesar ulei	147 cc	
	Presiune maxima	700 bar	
	Lungime	612 mm	
	Greutate	6,5 kg	

HYCP-4413

Cleste hidraulic pentru sertizat max 400 mm²

- *include bacuri HYCP-4413 (Cu) CU 16/25/35/50/70/95/120/150/185/240/300/400*
- *cap rotativ la 180º pentru operare facila*
- *deschiderea falcilor 44 mm*
- *pentru bacuri Alcoa, Burndy, T&B, Klauke, Cembreand si Blackburn*
- *cutie plastic*



HEXAGONAL TERMINAL C-CONNECT Fiber Glass

	Capacitate	Ambalare	
HYCP-4413	400 mm²	1	**6767,21**
	Capacitate maxima	400 mm²	
	Forta exercitata	12,7 tone (125 kN)	
	Necesar ulei	147 cc	
	Presiune maxima	700 bar	
	Lungime	641 mm	
	Greutate	7,6 kg	

UB-412HE

Cap hidraulic pentru sertizat max 400 mm²

- *deschiderea falcilor 32 mm*
- *pentru bacuri Alcoa, Burndy, T&B, Klauke, Cembreand si Blackburn*
- *nu include bacuri*
- *cutie plastic*



HEXAGONAL · SPEED DELIVERY · C-CONNECT

	Capacitate	Ambalare	
UB-412HE	400 mm²	1	**3383,61**
	Capacitate maxima	400 mm²	
	Forta exercitata	11,6 tone (114 kN)	
	Necesar ulei	53 cc	
	Presiune maxima	700 bar	
	Lungime	258 mm	
	Greutate	4,2 kg	

HYCP-4413HE

Cap hidraulic pentru sertizat max 400 mm²

- *deschiderea falcilor 44 mm*
- *pentru bacuri tip U*
- *nu include bacuri*
- *cutie plastic*



KuDos Professional Hydraulic Tools · HEXAGONAL · TERMINAL · C-CONNECT

	Capacitate	Ambalare	
HYCP-4413HE	400 mm²	1	**3777,05**
	Capacitate maxima	400 mm²	
	Forta exercitata	12,7 tone (125 kN)	
	Necesar ulei	80 cc	
	Presiune maxima	700 bar	
	Lungime	276 mm	
	Greutate	5,1 kg	

HYCP-630HE

Cap hidraulic pentru sertizat max 630 mm²

- *pentru bacuri Alcoa, Burndy, T&B, Klauke, Cembreand si Blackburn*
- *include bacuri CU 400/500/630*
- *cutie plastic*



KuDos Professional Hydraulic Tools · HEXAGONAL · TERMINAL · INDENT TYPE

	Capacitate	Ambalare	
HYCP-630HE	630 mm²	1	**6059,02**
	Capacitate maxima	630 mm²	
	Forta exercitata	22,5 tone (221 kN)	
	Necesar ulei	89 cc	
	Presiune maxima	700 bar	
	Lungime	320 mm	
	Greutate	5,6 kg	

HYCP-15THE

Cap hidraulic pentru sertizat max 400 mm²

- *pentru bacuri Alcoa, Burndy, T&B, Klauke, Cembreand si Blackburn*
- *deschiderea falcilor 52 mm*
- *nu include bacuri*
- *cutie plastic*



KuDos Professional Hydraulic Tools · HEXAGONAL · TERMINAL

	Capacitate	Ambalare	
HYCP-15THE	400 mm²	1	**4721,31**
	Capacitate maxima	400 mm²	
	Forta exercitata	14,1 tone (138 kN)	
	Necesar ulei	104 cc	
	Presiune maxima	700 bar	
	Lungime	375 mm	
	Greutate	6,9 kg	

HYCP-451000HE

Cap hidraulic pentru sertizat max 1000 mm²

- *cursa: 35,5 mm*
- *nu include bacuri*
- *cutie plastic*



KuDos Professional Hydraulic Tools · HEXAGONAL · TERMINAL · INDENT TYPE

	Capacitate	Ambalare	
HYCP-451000HE	1000 mm²	1	**6452,46**
	Capacitate maxima	1000 mm²	
	Forta exercitata	44,5 tone (436 kN)	
	Necesar ulei	89 cc	
	Presiune maxima	700 bar	
	Lungime	285 mm	
	Greutate	11,6 kg	

HYCP-60ST

Cap hidraulic pentru sertizat max 60 mm OD

- *cursa: 38,7 mm*
- *cilindru cu simpla actiune*
- *pentru toate tipurile de bacuri Alcoa*
- *nu include bacuri*
- *cutie metal*



KuDos Professional Hydraulic Tools · HEXAGONAL · TERMINAL · INDENT TYPE

	Capacitate	Ambalare	
HYCP-60ST	60 mm OD	1	**18255,74**
	Capacitate maxima	60 mm manson extern	
	Forta exercitata	55 tone (539 kN)	
	Necesar ulei	308 cc	
	Presiune maxima	700 bar	
	Lungime	446 mm	
	Greutate	21,3 kg	

HYCP-60D

Cap hidraulic pentru sertizat max 60 mm OD

- *cursa: 38 mm*
- *cilindru cu dubla actiune*
- *pentru toate tipurile de bacuri Alcoa*
- *nu include bacuri*
- *cutie metal*



KuDos Professional Hydraulic Tools

HEXAGONAL TERMINAL INDENT TYPE

	Capacitate	Ambalare	
HYCP-60D	60 mm OD	1	**19514,75**
	Capacitate maxima	60 mm manson extern	
	Forta exercitata	55 tone (539 kN)	
	Necesar ulei	308 cc	
	Presiune maxima	700 bar	
	Lungime	446 mm	
	Greutate	21,3 kg	

HYCP-100ST

Cap hidraulic pentru sertizat max 60 mm OD

- *cursa: 22 mm*
- *cilindru cu dubla actiune*
- *nu include bacuri*
- *cutie metal*



KuDos Professional Hydraulic Tools

HEXAGONAL TERMINAL INDENT TYPE

	Capacitate	Ambalare	
HYCP-100ST	60 mm OD	1	**20773,77**
	Capacitate maxima	60 mm manson Cu	
	Forta exercitata	100 tone (980 kN)	
	Necesar ulei	315 cc	
	Presiune maxima	700 bar	
	Lungime	364 mm	
	Greutate	31,4 kg	

200W

Cap hidraulic pentru sertizat max 86 mm OD

- *cursa: 37 mm*
- *cilindru cu dubla actiune*
- *nu include bacuri*
- *cutie metal*



KuDos Professional Hydraulic Tools

HEXAGONAL TERMINAL INDENT TYPE

	Capacitate	Ambalare	
200W	86 mm OD	1	**57678,69**
	Capacitate maxima	86 mm manson Cu	
	Forta exercitata	200 tone (1960 kN)	
	Necesar ulei	1049 cc	
	Presiune maxima	700 bar	
	Lungime	445 mm	
	Greutate	78 kg	

DRCP-559140

Perforator hidraulic pentru profile DIN

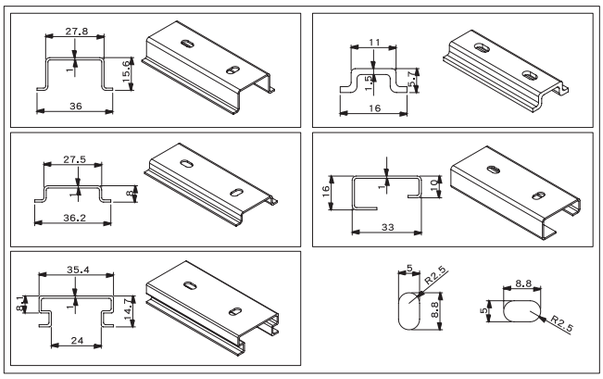
- *pentru executarea a 5 perforari diferite in profile DIN*

KuDos Professional Hydraulic Tools









	Capacitate	Ambalare	
DRCP-559140	-	1	**9285,25**
	Dimesniune perforare	8,8x5 mm	
	Forta exercitata	45 tone	
	Lungime	1110 mm	
	Greutate	12 kg	

PNST-10

Perforator hidraulic 1/2”-2”

- *capacitate maxima: gauri Φ 4 inch si adancime de 3.2 mm in otel moale si 1,6 mm in otel inoxidabil*
- *cilindru cu simpla actiune*
- *6 preducele: 1/2”, 3/4”, 1”, 1.1/4”, 1.1/2”, 2”*



KuDos Professional Hydraulic Tools

	Capacitate	Ambalare	
PNST-10	1/2”-2”/ 6 preducele	1	**7160,66**
	Capacitate perforare	1/2”-2”	
	Forta exercitata	12,7 tone	
	Greutate	7,6 kg	

PN-52

Perforator hidraulic 1/2”-2”

• capacitate maxima: gauri Φ 4 inch si adancime de 3.2 mm in otel moale si 1,6 mm in otel inoxidabil
• cilindru cu simpla actiune
• 6 preducele: 1/2”, 3/4”, 1”, 1.1/4”, 1.1/2”, 2”



	Capacitate	Ambalare	
PN-52	1/2”-2”/ 6 preducele	1	**5760,00**
	Capacitate perforare	1/2”-2”	
	Forta exercitata	12,7 tone	
	Greutate	7,6 kg	

SH-70A

Perforator hidraulic Ø20,5 mm

• capacitate maxima: gauri Φ 20.5 mm si adancime de 10 mm in otel moale





	Capacitate	Ambalare	
SH-70A	Φ 20.5 mm	1	**7160,66**
	Capacitate perforare	Φ 20.5 mm	
	Forta exercitata	31 tone	
	Necesar ulei	72 cc	
	Presiune maxima	700 bar	
	Adancime de lucru	70 mm	
	Inaltime	360 mm	
	Greutate	13 kg	

HYBC-120

Dispozitiv de taiat bare metalice

• capacitate maxima: 120 mm diametru si 12 mm grosime
• ideal pentru tevi din: aluminiu, cupru, fier



	Capacitate	Ambalare	
HYBC-120	120x12 mm	1	**7790,16**
	Capacitate maxima	120x12 mm	
	Forta exercitata	21,8 tone	
	Necesar ulei	131 cc	
	Presiune maxima	700 bar	
	Inaltime	410 mm	
	Greutate	14,8 kg	

HYBN-120

Dispozitiv de indoit bare metalice

• capacitate maxima: 90° pentru tevi de 120 mm diametru si 12 mm grosime
• ideal pentru tevi din: aluminiu, cupru
• 2 opritoare paralele laterale
• scala gradata



	Capacitate	Ambalare	
HYBN-120	120x12 mm	1	**9253,77**
	Capacitate maxima	120x12 mm	
	Forta exercitata	21,9 tone	
	Necesar ulei	124 cc	
	Presiune maxima	700 bar	
	Inaltime	360 mm	
	Greutate	15,8 kg	

DBBN-120

Dispozitiv de indoit bare metalice

• capacitate maxima: 90° pentru tevi de 120 mm diametru si 12 mm grosime
• ideal pentru tevi din: aluminiu, cupru
• model “pod basculant”
• 2 opritoare paralele laterale
• scala gradata





	Capacitate	Ambalare	
DBBN-120	120x12 mm	1	**9600,00**
	Capacitate maxima	120x12 mm	
	Forta exercitata	21,9 tone	
	Necesar ulei	124 cc	
	Presiune maxima	700 bar	
	Inaltime	360 mm	
	Greutate	15,8 kg	

HYBN-160

Dispozitiv de indoit bare metalice

• capacitate maxima: 90° pentru tevi de 160 mm diametru si 12 mm grosime
• ideal pentru tevi din: aluminiu, cupru
• 2 opritoare paralele laterale
• scala gradata

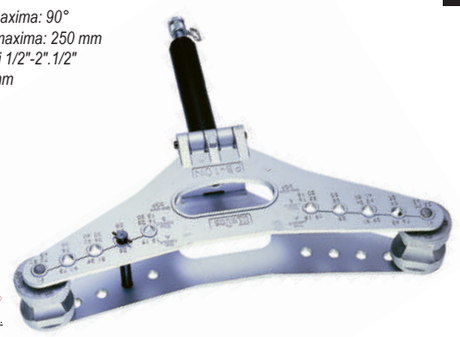


	Capacitate	Ambalare	
HYBN-160	160x12 mm	1	**10040,66**
	Capacitate maxima	160x12 mm	
	Forta exercitata	21,9 tone	
	Necesar ulei	130 cc	
	Presiune maxima	700 bar	
	Inaltime	360 mm	
	Greutate	18,8 kg	

PB-10N

Dispozitiv de indoit tevi

- *capacitate maxima: 90°*
- *deschidere maxima: 250 mm*
- *diametru tevi 1/2"-2".1/2"*
- *cursa: 250 mm*



	Capacitate	Ambalare	
PB-10N	90°	1	**7081,97**
	Capacitate maxima	90°	
	Forta exercitata	11,1 tone	
	Necesar ulei	398 cc	
	Presiune maxima	700 bar	
	Inaltime	780 mm	
	Greutate	18,6 kg	

HP-700A

Pompa hidraulica cu actionare la mana



	Capacitate	Ambalare	
HP-700A	700 bar	1	**4091,80**
	Preiune maxima	700 bar	
	Necesar ulei	720 cc	
	Debit ulei trapta 1	12,26 cc/cursa	
	Debit ulei trapta 2	2,26 cc/cursa	
	Lungime	595 mm	
	Greutate	9,0 kg	

HYNC

Dispozitiv pentru taiat capete de suruburi si piulite

- *pentru capete suruburi si piulite cu duritate de pana la HRc-44*
- *nu se pot utiliza pentru suruburi din INOX sau cu profil patrat*



	Capacitate	Ambalare	
HYNC-1319	M6 - M12	1	**1825,57**
HYNC-1924	M12 - M16	1	**4375,08**
HYNC-2432	M16 - M22	1	**5413,77**
HYNC-3241	M22 - M27	1	**6751,48**
HYNC-4150	M27 - M32	1	**8797,38**
HYNC-5060	M33 - M39	1	**12779,02**
HYNC-6075	M39 - M48	1	**20915,41**

HYP-700FT

Pompa hidraulica cu actionare la picior



	Capacitate	Ambalare	
HYP-700FT	700 bar	1	**6531,15**
	Preiune maxima	700 bar	
	Necesar ulei	720 cc	
	Debit ulei trapta 1	35,8 cc/cursa	
	Debit ulei trapta 2	2,1 cc/cursa	
	Lungime	720 mm	
	Greutate	12,0 kg	

EP-30S

Pompa hidraulica

- *tensiune de alimantare: 230 V*
- *putere motor: 350 W*
- *telecomanda cu control total*
- *2 furtune hidraulice atasate*
- *nivel ulei vizibil*
- *constructie robusta din otel*
- *pompa cu dubla actiune*



	Capacitate	Ambalare	
EP-30S	2,6 l/min	1	**17311,48**
	Capacitate livrare ulei la presiune scazuta	2,6 litri / minut	
	Capacitate livrare ulei la presiune inalta	0,32 litri / minut	
	Necesar ulei	3000 cc	
	Presiune maxima	700 bar	
	Inaltime	374 mm	
	Greutate	18,0 kg	

HP-180N

Pompa hidraulica cu actionare la mana



	Capacitate	Ambalare	
HP-180N	590 bar	1	**1652,46**
	Preiune maxima	590 bar	
	Necesar ulei	180 cc	
	Debit ulei trapta	0,9 cc/cursa	
	Lungime	320 mm	
	Greutate	3,7 kg	

HYFS-8

Despartitor hidraulic



	Capacitate	Ambalare	
HYFS-8	81 mm	1	**5193,44**
	Capacitate maxima de departare	81 mm	
	Forta exercitata	10,1 tone	
	Spatiu minim necsar	6 mm	
	Greutate	8 kg	

MFS-8

Despartitor manual



	Capacitate	Ambalare	
MFS-8	81 mm	1	**4878,69**
	Capacitate maxima de departare	81 mm	
	Forta exercitata	8 tone	
	Spatiu minim necsar	6 mm	
	Greutate	8 kg	

Clesti de taiere

Model Nr.	Forta de strangere (tone)	Cursa maxima (mm)	Greutate (kg)	Capacitate de taiere														
				Inima de canepa (mm)			Bara rotunda (mm)				Cabluri litate (mm)					Cabluri (mm)		
Clesti hidraulici cu actionare manuala				6x7	6x12	6x9	Bara de Cu moale	Bara de Al moale	Bara de otel moale	Bara din fier-beton	Cablu litat din Cu	Cablu litat din Al	ACSR	Ancora 1x7	Ancora 1x19	Cablu tele-fonic CCP	Cablu manta din plumb	Cablu sub-teran
HYSC-24	6,7	28,0	4,0	18	24	24	24	18	20	16	24	24	24	20	20			24
HYSC-32	25,4	38,0	9,3	32	32	32	32	32	25	25	32	32	32	32	32			32
HYSC-050	4,9	58,4	3,8						50		50	50				50		50
TC-085	5,6	90,8	5,1								28	38				85	85	50
HYSC-P85	5,0	91,5	5,1								28	38				85	85	50

Model Nr.	Forta de strangere (tone)	Cursa maxima (mm)	Greutate (kg)	Capacitate de taiere														
				Inima de canepa (mm)			Bara rotunda (mm)				Cabluri litate (mm)					Cabluri (mm)		
Capete de taiere				6x7	6x12	6x9	Bara de Cu moale	Bara de Al moale	Bara de otel moale	Bara din fier-beton	Cablu litat din Cu	Cablu litat din Al	ACSR	Ancora 1x7	Ancora 1x19	Cablu tele-fonic CCP	Cablu manta din plumb	Cablu sub-teran
HYSC-20HE	5,3	24,5	2,4	16	20	20	16				20	20	21	15	16			
HYSC-32HE	25,4	37,0	10,0	32	32	32	25			25	32	32	32	32	32			
HYSC-55HE	15,0	55,6	9,0	25	30	30	22			19	50	50	50	15	20			
HYCC-35HE	6,3	73,0	3,6															35
TC-085HE	5,6	90,4	5,1													85		85
HYCC-P85HE	5,0	91,5	7,2								28	38				85		
HYCC-P100HE	8,8	110,0	13,2								42	46				100		
HYCC-105HE	10,0	122,8	13,0								42	46				105		105
TC-120HE	10,6	129,6	13,0													120		120

Clesti de sertizare

Model Nr.	Forta de strangere (tone)	Cursa maxima (mm)	Actionare	Greutatea (kg)	Aplicatii		
Clesti hidrauluici de sertizat cu ationare manuala					Papuci cu ureche de otel / conductori	Papuci cu ureche de Cu / conductori	Papuci cu ureche de Al / conductori
HYCP-185	5,2	10-15	simpla	2,5	(Se pot utiliza si bacuri BEKO)	10-185 mm²	
HYCP-240	5,2	10-15	simpla	2,8		10-240 mm²	
UCP-240	8,8	19	simpla	5,0		10-240 mm²	
PH-240	6,2	13	simpla	5,0	(Se pot folosi toate tipurile de bacuri Alcoa, Burndy, Klauke, T&B, si Blackburn de 12 tone)	pana la 240 mm²	
HYCP-2612	12,0	26	simpla	6,0		pana la 400 mm²	pana la 300 mm²
UB-412	12,0	32	simpla	7,0		pana la 400 mm²	pana la 300 mm²
HYCP-4013	13,0	40	simpla	7,0		pana la 400 mm²	pana la 300 mm²

Model Nr.	Forta de strangere (tone)	Cursa maxima (mm)	Actionare	Greutatea (kg)	Aplicatii		
Capete hidraulice de sertizare					Papuci cu ureche de otel / conductori	Papuci cu ureche de Cu / conductori	Papuci cu ureche de Al / conductori
HYCP-2612HE	12,0	26	simpla	4,6	(Se pot folosi toate tipurile de bacuri Alcoa, Burndy, Klauke, T&B, si Blackburn de 12 tone)	pana la 400 mm²	pana la 300 mm²
UB-412HE	12,0	32	simpla	5,0		pana la 400 mm²	pana la 300 mm²
HYCP-4013HE	13,0	40	simpla			pana la 400 mm²	pana la 300 mm²
HYCP-15THE	15,0	50	simpla	7,0	Bacurile tip U pot fi folosite cu adaptor reazem	pana la 400 mm²	pana la 300 mm²
HYCP-630HE	23,0	50	simpla	5,6		pana la 630 mm²	
HYCP-500HE	30,0	30	simpla	17,5		8 - 500 mm²	30 - 590 mm²
HYCP-451000HE	45,0	37	simpla	11,0		16 - 1000 mm²	
HYCP-60ST	55,0	38,5	simpla	22,0	pana la 30 mm	pana la Φ 60 mm	
HYCP-60D	55,0	38,5	dubla	23,0	pana la 30 mm	pana la Φ 60 mm	
HYCP-100ST	100,0	22	dubla	32,0	pana la 36 mm	pana la Φ 76 mm	



SCULE AUTO

Suprafata de protectie
Sculele auto sunt fabricate din otel de calitate cu compozitia imbunatatita. Cateva modele prezinta suplimentar fata de aceasta suprafata de protectie cromata.

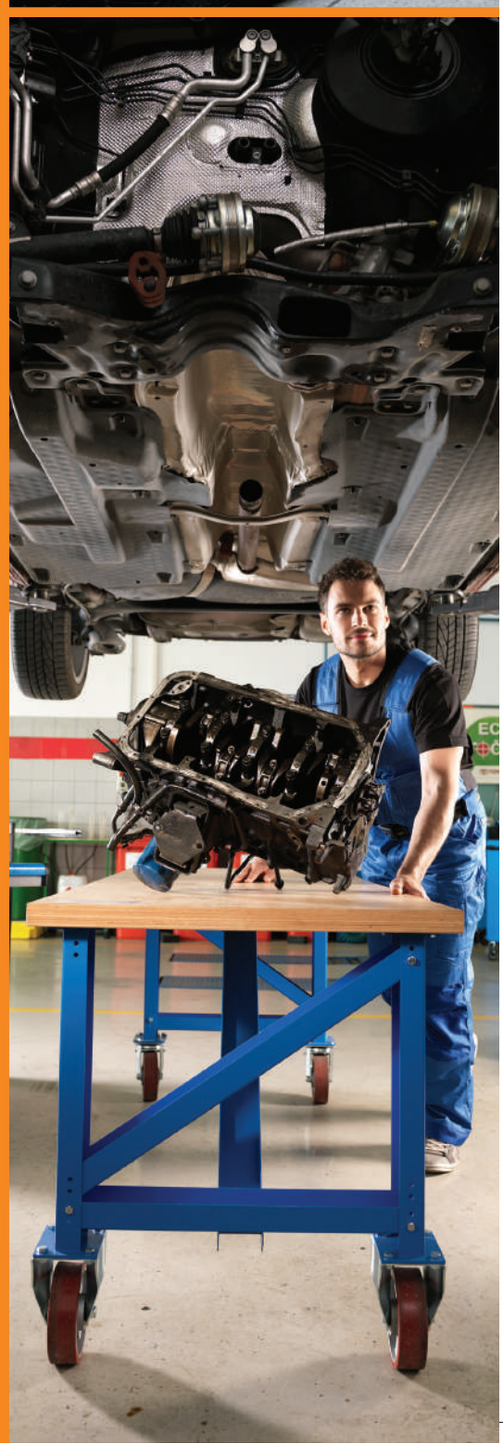
Maner ergonomic
Cu manere ergonomice si o suprafata speciala de prindere, sculele auto Unior ofera maxim de confort la locul de munca si e cienta inalta cu minimum de efort.

Inalta precizie
Cu design-ul lor perfect si tehnologia superioara, sculele auto Unior asigurao interventie de mare precizie in caz de utilizare generala sau speciala.

UNIOR







Utilizare fara efort

Adaptate complet pentru utilizarea speciala,
ce nu necesita efort inutil.

2301SOS4

Set de scule auto in suport SOS

- *pentru coliere si cleme (arcuri,clipsuri,oetiker) furtune*



UNIOR

623125	7	2650	1F	1	1311,71

2077/2BI (235), **2078/2BI** (230), **2079/2BI** (206), **2080/2BI** (190), **2081/3** (285), **2089/2BI** (230), **vI2301SOS4** (374 x 364 x 30)

vI2301SOS4

Suport SOS pentru 2301SOS4

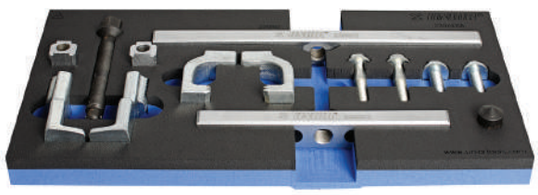
UNIOR

623106	374 x 364 x 30	94	1V	1	59,83

2301SOS8

Set de scule auto in suport SOS

- *pentru demontarea piulițelor nervurate*



UNIOR

623129	1	2135	1F	1	962,59

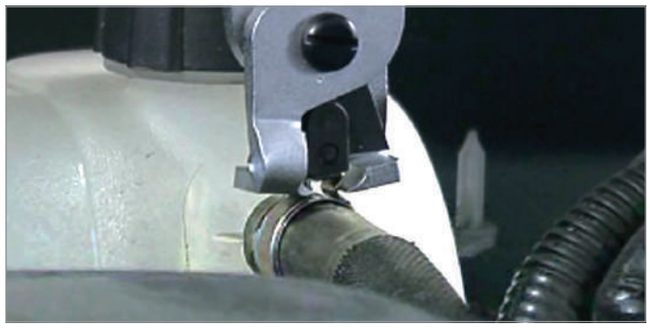
2208 (171), **vI2301SOS8** (188 x 364 x 30)

vI2301SOS8

Suport SOS pentru 2301SOS8

UNIOR

623110	188 x 364 x 30	57	1V	1	31,13





2077/2BI

Cleste coliere

- *material: otel carbon de scule*
- *material varf pivotant otel special de scule*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *pentru coliere la sistemul de alimentare, racire, spalare stergator etc.*

Avantaje:

- *pentru majoritatea tipurilor de coliere*
- *pozitia inchisa permite inlocuirea usoara a colierelor.*

Cum sa utilizați scula:

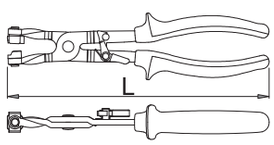
- *Clestii pentru coliere sunt utilizati pentru deschiderea colierelor, asigurand schimbarea rapida si in siguranta a furtunelor elastice. Scula este utilizata si pentru strangerea colierelor pe furtune asigurand fixarea acestora in pozitia corecta si curgerea corecta a lichidelor prin furtune. Clestele a fost proiectat ca sa lucreze cu un efort minim pentru a crea presiunea de deschidere a colierelor, cu protejarea furtunelor. Forma clestelui a fost gandita pentru a putea lucra in locurile inguste, permitand manuirea usoara a acestuia. Strangerea ferma si rapida este asigurata de forma manerelor*

Utilizati pentru:

- *Alfa Romeo. Audi, Citroen, Ford, Fiat, Hunday, Lancia, MAN, Opel/Vauxwall, Peugeot, Porche, Renault, Seat, Toyota, VW, Volvo, etc.*







UNIOR

619250	235	301	4B	1	223,72

2078/2BI

Clesti de coliere pentru forma OETKER

- *material: otel carbon de scule*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *pentru industraia auto, presarea colierelor OETKER*

Avantaje:

- *deformarea precisa a urechilor colierelor*
- *forma lunga pentru deformarea usoara a urechilor de fixare*
- *pentru aproape toate tipurile de autoturisme*

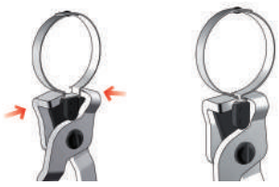
Cum sa utilizați scula:

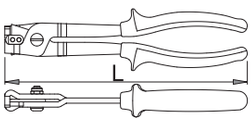
- *Clestii pentru coliere sunt utilizati pentru deschiderea colierelor, asigurand schimbarea rapida si in siguranta a furtunelor elastice.Scula este utilizata si pentru strangerea colierelor pe furtune asigurand fixarea acestora in pozitia corecta si curgerea corecta a lichidelor prin furtune. Clestele a fost proiectat ca sa lucreze cu un efort minim pentru a crea presiunea de deschidere a colierelor, cu protejarea furtunelor. Forma clestelui a fost gandita pentru a putea lucra in locurile inguste, permitand manuirea usoara a acestuia. Strangerea ferma si rapida este asigurata de forma manerelor*

Utilizati pentru:

- *Pentru: Audi, BMW, Chreysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/ Vauxhall, VW*







	L				
619251	230	316	4B	1	**256,75**

2079/2BI

Cleste pentru racordurile de combustibil

- *material: otel carbon de scule*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *pentru deconectarea furtunelor de combustibil*

Avantaje:

- *arc de redeschidere*

Cum sa utilizați scula:

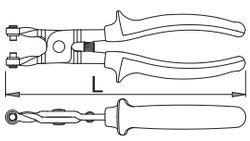
- *Clestele este destinat decuplarii si cuplarii rapide a colierelor furtunelor de combustibil. Cletele este prevazut cu doi pini pe falci ce comprima cuplele in timpul operatiilor de reparatii sau schimbare a furtunelor (furtunele pot fi inlocuite) Falcile sunt dimensionate si reglate in asa fel incat sa asigure o munca usoara si in siguranta, asigurand de asemenea o forta mare de actionare intr-un spatiu restrans.*

Utilizati pentru:

- *Utilizat pentru Opel/Vauxwall, Fiat, GM, VW, Renault etc.*







	L				
619252	206	264	4B	1	**154,98**

2080/2BI

Cleste pentru coliere CLIC

- *material: otel carbon de scule*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*

Avantaje:

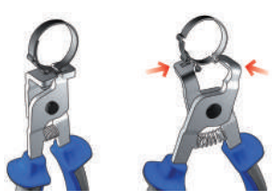
- *separarea si inchiderea cu rotire de 180 grade a clestelui*

Utilizare

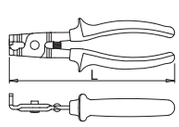
- *pentru montarea si demontarea clierelor cu arc-clips*
- *clestii pentru coliere sunt utilizati pentru deschiderea colierelor, asigurand schimbarea rapida si in siguranta a furtunelor elastice. Scula este utilizata si pentru strangerea colierelor pe furtune asigurand fixarea acestora in pozitia corecta si curgerea corecta a lichidelor prin furtune. Clestele a fost proiectat ca sa lucreze cu un efort minim pentru a crea presiunea de deschidere a colierelor, cu protejarea furtunelor. Forma clestelui a fost gandita pentru a putea lucra in locurile inguste, permitand manuirea usoara a acestuia. Strangerea ferma si rapida este asigurata de forma manerelor*

Utilizati pentru:

- *Pentru: Audi, Citroen, Fiat, Mercedes, Opel/Vauxhall, Peugeot, VW, Renault etc.*







	L				
619253	190	244	4B	1	**152,31**

2081/3

Cleste pentru blocarea furtunelor de lichide

- *material: falci din otel special de scule*
- *manere din tabla*
- *utilizat pentru oprirea lichidelor din furtune:ulei, benzina, motorina….*

Avantaje:

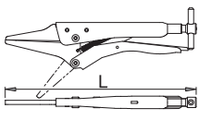
- *forma falcilor este plata ceea ce nu duce la deteriorarea furtunelor*
- *manerul in forma de T acoperit cu plastic asigura blocarea suplimentara.*
- *oprire rapida si simpla a curgerii lichidelor prin furtune*
- *mecanism universal de blocare*

Cum sa utilizați scula:

- *Scula de obturare a scurgerii lichidelor este indispensabila la schimbarea diverselor componente la autoturisme, componente racordate la furtune.Functionalitatea principala a sculei este de a obtura scurgerea de fluid prin furtune, putand astfel interveni la diversele componente racordate cu acestea fara a intrerupe sau a pierde lichidul ce trece prin aceste componente.Scula se foloseste pentru furtunele de la autoturisme,camioane,masini agricole sau diverse motoare ale ambarcatiunilor nautice, pentru furtune cu diametrul maxim de 55 mm, peste acest diametrul scurgerea de lichid nu mai este garantata.*

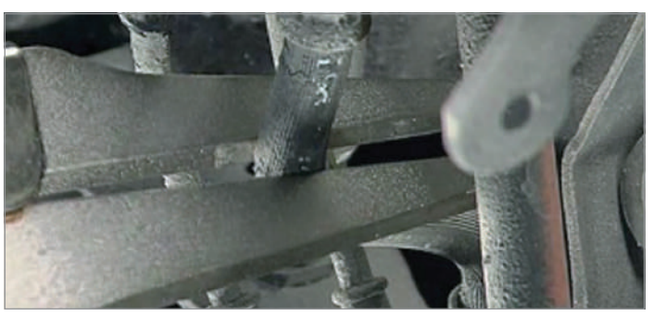






UNIOR

	L					
619254	285	55	611	1E	1	**184,71**

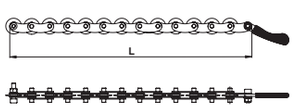


2082.1

Lant cu role de schimb pentru art.2082

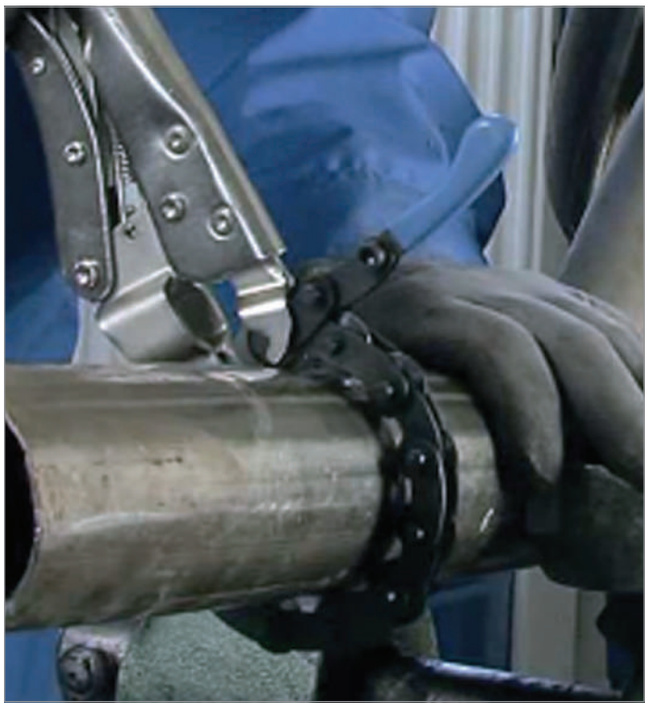
- *material otel aliat*





UNIOR

	L				
619256	305	184	1E	1	**189,18**



2082/3

Cleste pentru taierea tevilor de esapamant

- *material: falci din otel special de scule*
- *manere din tabla*
- *capacitate de taiere 25-85 mm*
- *utilizat pentru taierea tevilor de esapamant si inlocuirea partiala a acestora*

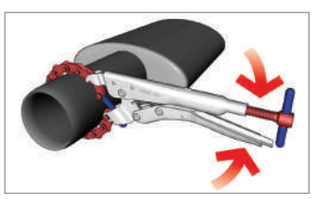
Avantaje:

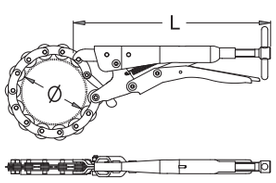
- *manerul in forma de T din plastic asigura o strangere mai buna in utilizare*
- *mecanism universal de blocare*
- *lant lung d etaiere*

Cum sa utilizați scula:

- *Dispozitivul este in primul rand destinat taierii tevilor de esapament, dar datorita designului si cutitelor dispuse pe zalele lantului poate fi folosit si pentru taierea tevilor de cupru, plastic, si altor tevi cu diametre cuprinse intre 25 si 85 mm.Scula este usoara si sigura in utilizare datorita accesoriilor acesteia:-lant lung de taiere asigura utilizarea pana la diametre de 85 mm -lame de taiere ce asigura taieri de tevi de otel pan ala grosimi de 3 mm, tevi de cupru pana la 4 mm PVC pana la 5 mm-manerul in forma de T plasizolat asigura o forta minima de taiere, mareste prinderea si impiedica alunecarea*







UNIOR

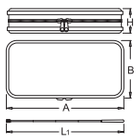
	L	Ø↓	Ø↑				
619255	330	25	85	765	1G	1	**413,14**

2084

Set de inspectie auto profesional

- *cu LED de utilizare indelungata*
- *livrata in husa*
- *capacitatea de ridicare magnetica 3,5 kg*
- *Setul include: 1 buc oglinda rotunda de O60, 1 buc oglinda dreptunghiulara 65x 42 mm, 2 buc biti, 3 baterii L1154F, geanta cu suport SOS*
- *Aditional la partea cu led setul include oglinzi suplimentare care dau posibilitatea de a vizualiza zonele intunecate si greu accesibile.Scula este destinata de asemenea recuperarii obiectelor mici metalice din zone greu accesibile ale motorului ca suruburi, piulite, saibe etc.Setul este prevazut cu o husa cu suport SOS pentru fixarea componentelor.*





UNIOR

	A	B	H	L1					
619742	240	110	45	650	3.5	360	1E	1	**299,36**

2086

Farfurie magnetica

- *material: otel inoxidabil*
- *asigura gestionarea pieselor mici in acelasi loc*
- *pentru orice piese mica, bolturi si piese metalica*

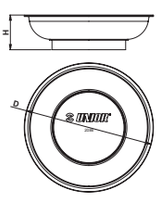
Avantaje:

- *magnet permanent puternic cu cauciuc de protectie pe partea de jos a acesteia*
- *poate fi folosita in orice pozitie*

Cum sa utilizați scula:

- *Cu ajutorul magnetului puternic protejat de cauciuc, farfuria magnetica este recomandata pentru orice aplicatie industriala, de la magazia de piese de schimb oriunde unde exista parti metalice la care poate fi atasata. Se poate utiliza in toate pozitiile, magnatul este atat de puterci incat poate fia atasata si cu fata in jos. Este recomandata pentru suruburi, piulite pentru a nu fi ratacite sau pierdute in timpul lucrului si pentru a le stoca unitar intr-un singur loc, usurand astfel operatiile de remontare a diverselor componente.*
- *pentru utilizare in garaje, motoare si bancuri de lucru.*





UNIOR

	D	H					
619728	150	40	3	387	1F	1	**35,36**

2083

Recuperator magnetic telescopic cu lumina

- *pentru recuperarea suruburilor, piulitelor si saibelor*

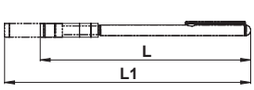
Avantaje:

- *bateriile protejate contra umiditatii*
- *include set de 3 baterii 3 LR41*
- *Cu iluminare pentru zonele intunecoase ale masinii*

Cum sa utilizați scula:

- *Scula este destinata recuperarii pieselor mici cazute in spatii greu accesibile.Este prevazuta cu lumina care se activeaza in mod automat la deschiderea telescopului.Se foloseste in spatii inguste si greu accesibile ale motorului.Cand partea telescopica nu este necesara rotiti capul si aceasta se stinge. Scula are un clips de agatare.*

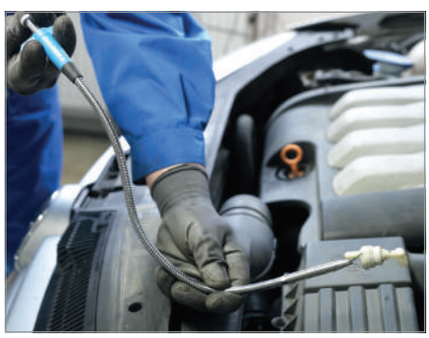




UNIOR

	L	L1					
619741	170	660	0.5	55	1F	1	**77,01**





2085

Scula de agatare obiecte mici

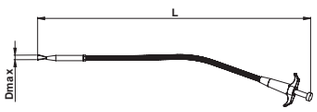
Avantaje:

- *Aceasta scula reglabila permite accesul in zone greu accesibile.Ea asigura apucarea obiectelor, are trei brate care realizeaza prinderea sau destinderea prin presarea butonului de capat.*

Cum sa utilizați scula:

- *pentru agatarea si recuperarea obiectelor mici nemetalice, bolturi, suruburi, piulite.*





UNIOR

	L	D					
619883	510	15	150	4A	1	**127,16**

2087

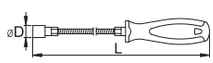
Recuperator magnetic flexibil

- *Recuperatorul magnetic flexibil este destinat recuperarii obiectelor mici metalice din locuri greu accesibile*

Avantaje:

- *Este prevazut cu un brat flexibil si un magnet puternic*
- *Magnetul este capabil de a ridica obiecte de pana la 1 kg*
- *Scula este prevazuta cu un maner ergonomic care asigura eficienta operatiilor de executat*





UNIOR

	L	D					
619929	1	500	15	127	4B	1	**79,73**





2091

Lanterna cu LED

- *7 SMD LED (6 frontal si 1 pe cap)*
- *1 SMD LED: 1500 lux la 0,5 m - 80 lumen*
- *6 SMD LED: 500 lux la 0,5 m - 350 lumen*
- *timp functionare 1 SMD LED din cap: 7 ore*
- *timp functionare 6 SMD LED frontale: 3 ore*
- *2 carlige ajustabile*
- *2 magneti laterali*
- *1 baza megnetica*
- *unghi de ajustare de la 0 la 180°*
- *carcasa realizata din plastic rezistent la soc*
- *baterie Li-Ion 3.7 V 2100 mAH*
- *timp de incarcare acumulator 5.0 ore*
- *buton ON/OFF*
- *cu 2 adaptoare (12/24V in 100-240 V)*
- *cablu incarcare USB*
- *lungime: 291 mm*
- *latime: 55 mm*
- *greutate: 291 g*



UNIOR

	L	A				
620237	250	55	512	1G	1	**273,02**

2091

Lanterna cu LED

- *lungime: 170 mm*
- *diametru: Ø 22 mm*
- *intensitate luminoasa: 100-130 lm*
- *LED: frontal 7 bucati x 1,5 W + pe cap 1 bucata x 1,0 W*
- *buton pornit / oprit in partea de sus*
- *clips magnetic*
- *carcasa rezistenta la soc*
- *acumulator Li-ion cu capacitate de 800 mAh*
- *LED indicator nivel de incarcare*
- *timp de functionare: mai mult de 5 ore*
- *port USB pentru incarcare cu adaptor AC / DC tensiune de intrare:*
100V - 240 V, 50 - 60Hz; tensiune de iesire: 5V DC 1000 mA



UNIOR

	L	D				
627201	170	22	55	1G	1	**137,80**

1976/2

Cheie reglabila filtru de ulei

- *material brate reglabile:otel carbon*
- *pentru montarea si demontarea filtrelor de ulei*
- *se utilizeaza pentru toate tipurile de filtre de la 60 la 120 mm*

Avantaje:

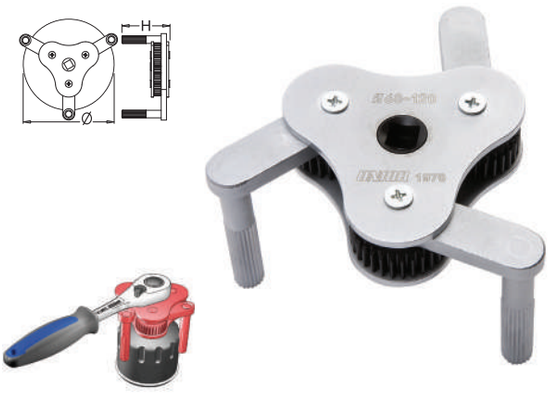
- *bratele sunt nervurate pentru o mai buna priza a filtrului*

Cum sa utilizați scula:

- *Un service are de obicei nevoie sa efectueze operatia de inlocuire a filtrelor de ulei, de aceea am creat aceasta scula cu utilizare la majoritatea tipurilor de autoturisme. Cand se utilizeaza in functie de tipul filtrului se strange blocandu-l. Cheia poate fi utilizata pentru filtre de la 60 la 120 mm diametru.Datorita spatiului restrans in timpul schimbarii, scula este proiectata sa aiba nevoie de cat mai putin spatiu de manevra.Datorita formei bratelor si a nervurilor se poate utiliza la filtre fara striuri permitand strangerea filtrelor ce nu ar putea fi utilizate cu metodele conventionale.Scula lucreaza in ambele directii ceea ce permite strangerea si desfacerea filtrelor, cu efort minim.*

Important

- *utilizat cu antrenor cu clichet reversibil 3/8" si prelungitorul adecvat*



UNIOR

	Ø⇩	Ø⇧		H				
619257	60	120	3/8"	60	635	1G	1	**289,05**

1978/2

Cheie pentru buson rezervor combustibil

- *material otel carbon de scule*
- *pentru demontarea busonului de la rezervorul de benzina*
- *pentru montare si demontare*

Avantaje:

- *acces rapid la piulita rezervorului de combustibil*

Cum sa utilizați scula:

- *Scula are trei brate mobile care strange capacul rezrvorului de benzina ferm.Accesul la acest buson este dificil cand trebuie inlocuit, aceasta scula necesita minim de spatiu. Utilizarea este simpla, se monteaza scula pe buson si se roteste in directia dorita.Scula se strange pe forma busonului si il roteste usor. Inlocuirea busonului de la rezervorul de combustibil este simpla.Scula este sigura si fiabila in timp.*

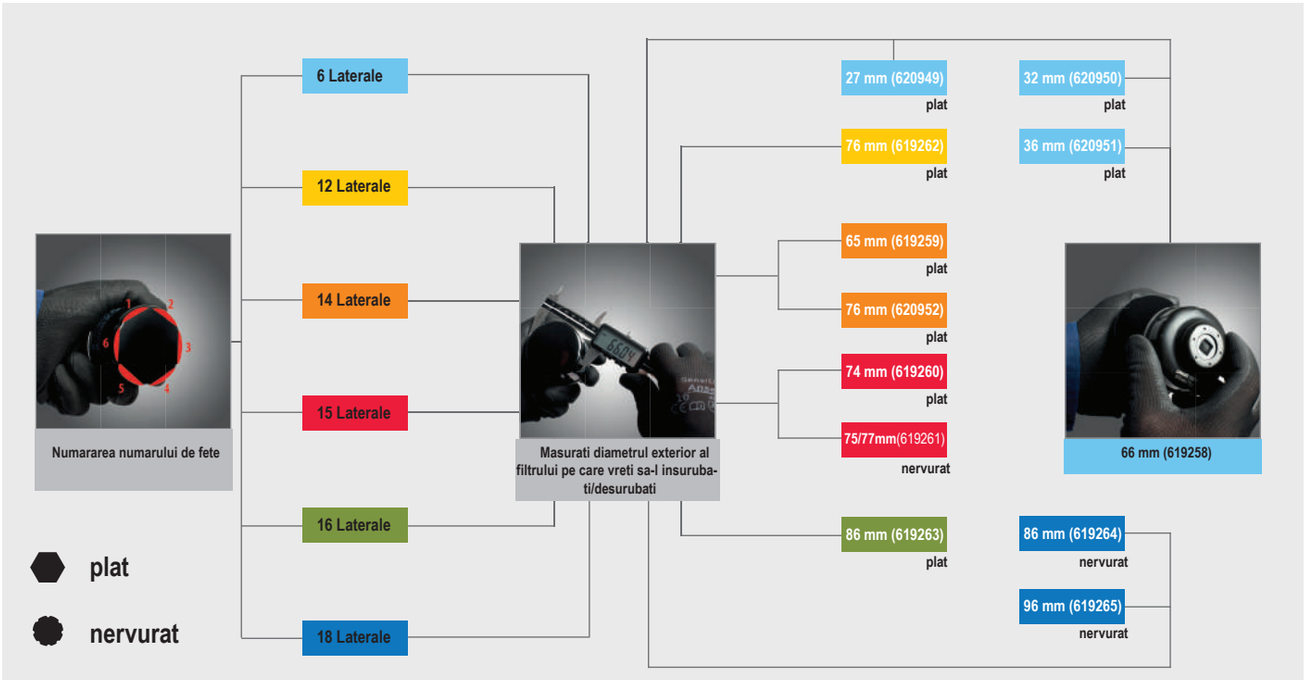
Important

- *se utilizeaza cu un cap cheie tubulara sau cheie fixa cu deschiderea 22 mm*



UNIOR

	D⇩	D⇧		H				
619266	120	155	22	73	670	1G	1	**229,02**



1977/6

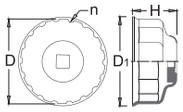
Cheie pentru filtrul de ulei

- *material:otel carbon de scule*
- *vopsite*
- *pentru montarea si demontarea filtrelor de ulei*
- *pentru inlocuirea filtrelor de ulei in locuri greu accesibile*
- *utilizat cu antrenor cu clichet reversibil 3/8" si prelungitorul adecvat*

Cum sa utilizați scula:

- *Scula functioneaza in 8 pozitii fapt ce permite utilizarea ei la majoritatea autoturismelor pentru schimbarea filtrelor de ulei.Utilizaera ei este foarte simpla, necesitand montarea pe filtru si rotirea usoara .Scula poate fi utilizata si pentru montarea filtrelor de ulei, prin designul cheii de filtru aceasta asigura o strangere optima.Suprafata de protectie a cheii ii confera rezistenta la zgarieturi si la agentii atmosferici si chimici.*





UNIOR

	D	360°/n	D1	H				
620949	27	6	37.5	33.5	68	1E	1	**34,98**
620950	32	6	43.5	34.6	81	1E	1	**35,95**
620951	36	6	48.4	34.9	89	1E	1	**36,68**
619258	66	6	73	37	124	1E	1	**31,04**
619259	65	14	70.7	36.8	129	1E	1	**31,04**
619260	74	15	81	36	146	1E	1	**32,74**
619261	75 - 77	15	81.4	41.8	165	1E	1	**32,74**
619262	76	12	82	35	137	1E	1	**32,74**
620952	76	14	81.3	37	160	1E	1	**31,04**
619263	86	16	96	47.2	201	1E	1	**32,74**
619264	86	18	92	39.5	171	1E	1	**32,74**
619265	96	18	102	36.8	190	1E	1	**32,74**

1977PB12

Set de chei filtru de ulei în cutie de plastic



UNIOR

622702	12	2300	1S	1	**549,20**

1977/6 (27 x 6, 32 x 6, 36 x 6, 66 x 6, 65 x 14, 74 x 15, 75 - 77 x 15, 76 x 12, 76 x 14, 86 x 16, 86 x 18, 96 x 18)



2089/2BI

Clesti cu clema arc automata

- *material:otel carbon de scule*
- *material varf pivotant otel special de scule*
- *finisare:cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *pentru coliere la sistemul de alimentare, racire, spalare stergator etc.*

Avantaje:

- *pentru majoritatea tipurilor de coliere*
- *pozitia inchisa permite inlocuirea usoara a colierelor.*

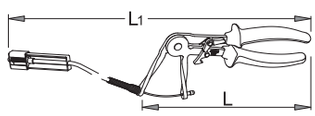
Cum sa utilizați scula:

- *Clestii sunt folositi pentru deschiderea clemelor cu arc pentru tevi folosite la sistemele de racire si incalzire, care asigura indepartrea rapida si sigura a tevilor de pe extensiile de tevi. Recomandate pentru clemelecu arc cu prinderi intre 18 si 54 mm. Cablul Bowden de 600 mm lungime asigura o folosire eficienta in locurile greu accesibile unde nu se poate ajunge la cleme cu alti clesti. Clestele are un blocator dintat cu 8 pozitii pentru deschiderea clemelor sau fixarea lor intr-o pozitie data care face ca demontarea clemelor sa se faca usor si fara nici un efort suplimentar. Manerele sunt proiectate in asa fel incat atunci cand falcile clestelui sunt deschise la maxim sunt usor de strans cu minimul de efort posibil. Folositi pentru: Alfa Romeo, Audi, Citroen, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.*

Utilizati pentru:

- *Alfa Romeo. Audi, Citroen, Ford, Fiat, Hunday, Lancia, MAN, Opel/Vauxwall, Peugeot, Porche, Renault, Seat, Toyota, VW, Volvo, etc.*





UNIOR

	L	L1				
620234	230	600	415	1G	1	**282,68**

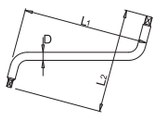


175/2

Cheie shimbat ulei la cutia de viteze

- *material: crom vanadiu*
- *capul cheii este tratat in intregime*
- *acoperire cromare conform EN12540*





UNIOR

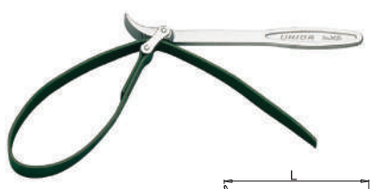
		L1	L2	D				
605112	8 x 10	203	169	10	305	4A	10	**33,42**

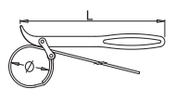


205/2

Cheie filtru de ulei cu banda din textura sintetica acoperita cu cauciuc

- *material:crom vanadiu*
- *banda din invelis de cauciuc*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*





UNIOR

	L					
601024	220	60	140	225	1E	10	**67,37**

205.1

Banda din textura sintetica acoperitacu cauciuc pentru art. 205/2

- *banda din invelis de cauciuc*



UNIOR

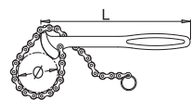
602841	62	1E	10	**43,49**

206/2

Cheie cu lant

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*





UNIOR

	L						
601025	220	60	140	330	1E	10	**129,83**

206.1

Lant pentru art. 206



UNIOR

	L				
620938	500	150	1E	5	**25,39**

1980

Refractometru

- *Pentru masurarea concentratiei electrolitilor in baterie in plaja 1,10-1,40 KG/l*
- *Pentru masurarea gradului de eficacitate al antigelului (etilena sau propilena) pe o scara coborand pana la -50° Celsius*
- *Pentru masurarea gradului de eficacitate al lichidului spalare parbriz pe o scara coborand pana la -40° Celsius*
- *Scara gradata in intervale de 0.01 Kg/L pentru masurarea concentratiei electrolitului si de 5°C pentru masurarea altor doua lichide*
- *Ambalat intr-o cutie de plastic si tava de scule SOS, care permite ambalarea in siguranta a testerului*
- *Vandut cu pipeta si o surubelnita pentru ajustarea calibrarii*
- *instructiuni de folosire incluse*

Important

- *inainte si dupa folosire, testerul trebuie curatat*



UNIOR

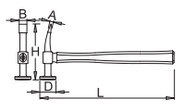
621403	315	1G	1	**512,72**

1931

Ciocan de tinichigerie cu varf curb si de finisare

- *material: otel carbon de scule*
- *cap polizat oglinda*
- *maner: forma octogonala, lemn hickory*
- *partea de lovire: rotunda 40 mm*





UNIOR

	L	A	B	D	H				
619229	325	8	19.6	40	140	445	1C	6	**143,31**

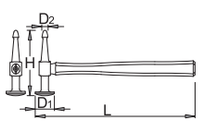


1934

Ciocan de tinichigerie cu cioc de finisare

- *material: otel carbon de scule*
- *cap polizat oglinda*
- *maner: forma octogonala, lemn hickory*
- *partea de lovire: rotunda 40 mm*





UNIOR

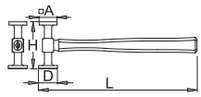
	L	D1	D2	H				
619232	325	40	12	138	406	1C	6	**143,31**

1932

Ciocan tinichigerie standard

- *material: otel carbon de scule*
- *cap polizat oglinda*
- *maner: forma octogonala, lemn hickory*
- *partea de lovire: rotunda 40 mm, patrata 38 mm*





UNIOR

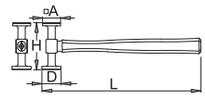
	L	A	D	H				
619230	325	38	40	100	445	1C	6	**158,78**

1936

Ciocan de tinichigerie de corectie

- *material: otel carbon de scule*
- *cap polizat oglinda*
- *maner: forma octogonala, lemn hickory*
- *partea de lovire: rotunda 40 mm, patrata 38 mm*
- *capul patrat este zimtat*





UNIOR

	L	A	D	H				
619234	325	38 x 38	40	100	465	1C	10	**165,20**

1900

Set pentru repararea caroseriei



UNIOR

619226	6	7200	1F	1	**1001,07**

1923 (86), **1925** (133), **1927** (121), **1929** (236), **1934** (325), **1936** (325)

1901

Set pentru repararea caroseriei



UNIOR

619227	7	7270	1F	1	**1217,20**

1932 (325), **1934** (325), **1936** (325), **1924** (76), **1925** (133), **1926** (79), **1927** (121)



1940/2BI

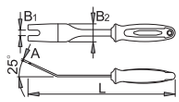
Scula de extras dopuri de plastic

- *material: otel carbon de scule*
- *maner ergonomic rezistent bimaterial*
- *pentru inlocuirea dopurilor pana la 8 mm*
- *scula este destinata pentru extragerea dopurilor de plastic, inlocuirea ornamentelor si pentru tapiterii*

Avantaje:

- *varf unghiular*
- *forma ergonomica permite utilizarea usoara si sigura in diverse pozitii si in locuri greu accesibile fara a deteriora dopurile extrase sau inlocuite*





UNIOR

	L	B1	B2	A				
619267	230	8.5	28	2.5	130	4B	1	**61,78**

1940.1/2BI

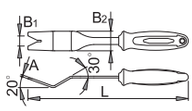
Scula de extras dopuri de plastic

- *material: otel carbon de scule*
- *maner ergonomic rezistent bimaterial*
- *pentru inlocuirea dopurilor de plastic de la 2 mm la 15 mm*
- *scula este destinata pentru extragerea dopurilor de plastic, inlocuirea ornamentelor si pentru tapiterii*

Avantaje:

- *varf unghiular*
- *forma ergonomica permite utilizarea usoara si sigura in diverse pozitii si in locuri greu accesibile fara a deteriora dopurile extrase sau inlocuite*





UNIOR

	L	B1	B2	A				
619268	230	16.3	28	2.5	135	4B	1	**67,28**

1940.2/2BI

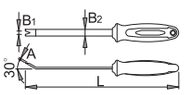
Scula de extras dopuri de plastic

- *material: otel carbon de scule*
- *maner ergonomic rezistent bimaterial*
- *varf unghiular*
- *scula este destinata pentru extragerea dopurilor de plastic, inlocuirea ornamentelor si pentru tapiterii*

Avantaje:

- *varf unghiular*
- *forma ergonomica permite utilizarea usoara si sigura in diverse pozitii si in locuri greu accesibile fara a deteriora dopurile extrase sau inlocuite*

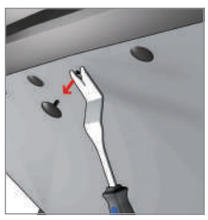




UNIOR

	L	B1	B2	A				
619269	230	5	10	2.5	109	4B	1	**68,64**





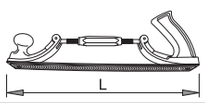


1946

Suport pila silex

- *livrat fara pila, care este disponibila ca piesa de rezerva (articol 1946.1)*





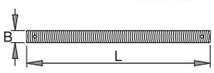
UNIOR

	L				
621477	350	770	1F	1	**154,74**

1946.1

Pila silex





UNIOR

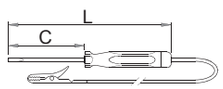
	L	B				
621478	350	35	274	1E	1	**113,39**

631

Tester auto 6 - 12/24 V

- *utilizare numai la verificarea instalatiilor auto pentru tensiuni de 12V,24V*
- *utilizat in alte scopuri sau la tensiuni diferite fata de cele indicate poate pune viata utilizatorului in pericol*
- *testerul nu va fi folosit la verificarea prezentei tensiunii in retea*





UNIOR

	V	a x b	C	L				
601688	6 - 12	0.5 x 3.0	60	140	25	1E	10	**15,27**
601689	6 - 24	0.6 x 3.5	90	180	25	1E	10	**15,23**

631B

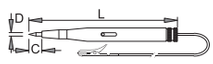
Tester auto 6-12/24 V

- *scula indispensabila in orice service auto*
- *protectie a varfului testerului pentru prevenirea incidentelor in utilizare*
- *utilizat pentru verificari la instalatiile electrice ale masinilor de la 6-12 V*

UTILIZARE:

- *conectati cleste la o masa*
- *intepati izolatia cu varful testerului pentru a verifica firul cu curent.*
- *faceti verificarea de-a lungul firului pana cand testerul se stinge, fapt ce indica defectiune pe fir*
- *utilizat in alte scopuri sau la tensiuni diferite fata de cele indicate poate pune viata in pericol*
- *produsul nu va fi folosit la verificarea prezentei tensiunii in retea*





UNIOR

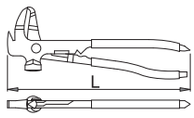
	V	C	D	L				
619856	6 - 24	12	1.8	110	38	1E	10	**27,92**

2028/2P

Cleste contragreutati

- *material: crom vanadiu*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere de plastic*



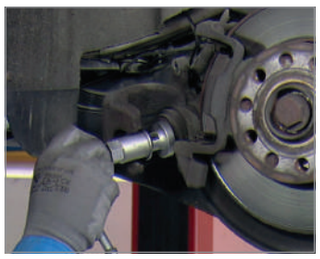






UNIOR

	L				
619288	250	406	4B	1	**91,31**





2033/2

Dispozitiv de comprimarea pistonaselor de frana

- *material:otel carbon de scule*
- *set utilizat la o gama mare de autoturisme*
- *pentru filete pe dreapta si pe stanga*
- *Cele 8 adaptoare ce sunt impreuna cu scula fac pozibila comprimarea majoritatii pistonaselor de frana in timpul schimbarii placutelor de frana*

Cum sa utilizați scula:

- *Introduceti scula intre placute si rotiti usor si constant pentru comprimarea pistonaselor, in acest fel eralizand spatiu suficient pentru schimbarea placutelor*

Utilizati pentru:

- *Audi, Fiat, Ford, Nissan, Renault, VW, Citroen, Seat, Mercedes-Benz, Opel*



UNIOR

	L				
619737	151	2130	1F	1	**752,25**

1944/6

Ventuza dubla pentru parbriz

- *corp din plastic rezistent*
- *pentru transportul si pozitionarea parbrizelor in timpul operatiilor de fixare si inlocuire*

Avantaje:

- *capacitatea de ridicare : 75 kg*
- *ventuzele puternice pentru o siguranta maxima*
- *ventuzele pot fi utilizate la parbrize plate si profilate*

Cum sa utilizați scula:

- *Dispizitivul pentru schimbarea si transportul parbrizelor. Dispozitivul se utilizeaza prin fixarea ventuzelor pe parbriz si creerea vacumului necesar pentru demontare manuala. Ventuzele se lipesc ferm pe parbriz dand posibilitatea de demontare si montare a acestuia*
- *1. pozitionati ventuzele pe parbriz*
- *2. actionati manerele pentru a creea vacumul necesar de lipire*
- *3.acum parbrizul poate fi demontat in siguranta si montat un altul nou.*



UNIOR

619740	925	1F	1	**270,13**







2034/2BI

Scula pentru schimbare valve de pe janta

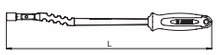
- *material: crom vanadiu*
- *maner ergonomic rezistent bimaterial*
- *marcaj injectat UNIOR*
- *pentru valve Schrader*
- *maner de plastic ce impiedica alunecarea si deteriorarea jentii.Scula adecvata pentru aproape toate tipurile de jenti*

Cum sa utilizați scula:

- *1 Introduceti valva in locasul jentii*
- *2 Insurubati scula pe valva*
- *3 Utilizati levierul pentru fixarea valvei in pozitia corecta pe janta*







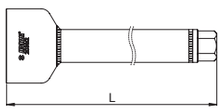
	L				
619738	325	273	4B	1	**157,03**

2039/2

Cheie de demontat bielete de directie

- *scula este folosita pentru a demonta si monta rapid si usor bieleta de la caseta de directie. Scula este impinsa prin canalul director spre articulatie; prin rotirea ei, cele 3 atasamente sunt cuplate pe articulatie care este apoi desurubata cu ajutorul cheii S27. Poate fi folosita pentru diametre de la 32 ~ 40 mm. Diametrul exterior al capului sculei este de 77 mm care se potriveste cu deschiderea din caroserie prin care cheia trebuie impinsa. Lungimea sculei de 400mm este potrivita pentru toate dimensiunile sau lungimile de raft director.*





	L				
620230	400	1885	1F	1	**398,26**

2042/2

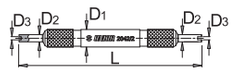
Scule pentru valve de cauciucuri

- *material: compozitie speciala pentru calire revenire*
- *acoperire: cromare în concordanta cu EN12540*
- *pentru montarea si demontarea mecanismului Schrader al valvelor*
- *un capat este destinat montarii si demontării mecanismului, celalalt capăt pentru esaparea usoara a aerului*

Avantaje:

- *Corpul manerului striat pentru o mai buna strangere*





	L	D1	D2	D3				
621998	115	11	4,5	2	65	4A	1	**23,74**



300/6B

Levier

- *material: otel carbon de scule*
- *vopsite*



UNIOR



	L	L1					
608815	500	120	18	1180	1C	1	**64,11**
608816	600	120	18	1385	1C	1	**68,35**
608817	800	120	18	2190	1C	1	**81,63**
608821	1000	120	20	2715	1C	1	**111,93**

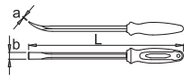
300/2C

Levier cu maner bimaterial

- *material: otel special de scule*
- *acoperire cromare conform EN12540*
- *maner ergonomic rezistent bimaterial*



UNIOR



	L	a x b				
613103	320	1.1 x 13	252	4B	10	**34,83**
613104	410	1.5 x 15	499	4B	10	**41,74**
613105	610	1.5 x 21	837	1C	5	**61,15**

300CCB

Set leviere cu maner bimaterial

- *material: otel special de scule*
- *acoperire cromare conform EN12540*
- *maner ergonomic rezistent bimaterial*



UNIOR

613106	3	878	1F	1	**137,76**

300/2C (320, 410, 610)



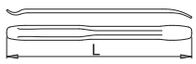
300/2

Levier

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*



UNIOR



	L				
617661	200	111	1C	10	**35,51**
601755	300	253	1C	10	**49,37**
601756	400	452	1C	10	**59,74**
601757	500	648	1C	10	**70,63**

300/2A

Levier

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*



UNIOR



	L				
601758	537	992	1C	10	**114,66**

1375/6

Cana de ulei cu furtun flexibil



	V				
619935	0.5 l	1000	1V	1	45,24

1376/6

Pompa de ungere

- *materialul capului, corpului si conductei de ungrere: oțel*
- *posibilitate de umplere directa cu vaselina vrac sau cu utilizarea unui cartus cu vaselina*
- *capacitate pentru unsoare in vrac: 500 cm³*
- *capacitate pentru cartus: 400 cm³*
- *presiune de lucru: 4000 - 4500 psi (280-310 bari)*
- *tub flexibil pentru gresare de inalta presiune, lungime de 290 mm, filet exterior R1/8", cu hexagon 13 mm*
- *tub rigid pentru gresare, de inalta presiune, din hotel, lungime de 130 mm, filet exterior R1/8",*
- *cap degresare pistol de ungere, Ameriken, filet interior pentru tevi R1/8", hex 9/16"*



	V				
619936	0.5 l	2500	1F	1	157,07

1376.1

Teava de gresare



	L					
621857	130	R1/8"	48	1V	1	15,66

1376.2

Tub flexibil pentru gresare



	L						
621858	290	R1/8"	13	40	1V	1	17,51

1376.3

Niplu



621859	R1/8"	9/16"	32	1V	1	12,11

210/2

Cheie pentru roti

- *material:crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*

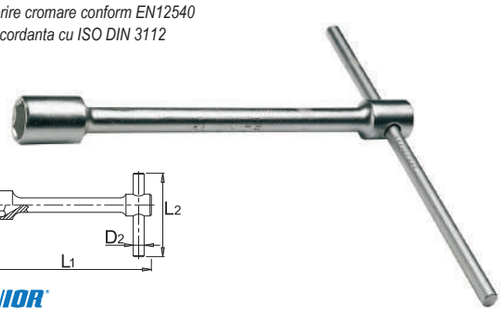


		L1	L2				
600782	17	255	27	476	4A	5	57,21
600783	19	285	29.5	541	4A	5	65,87

212/2

Chei in T pentru roti

- *material:crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *in concordanta cu ISO DIN 3112*



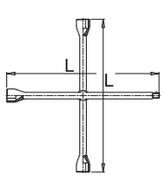
		L1	D1	L2	D2				
600785	17	260	26	300	12	720	1C	1	95,93
600786	19	280	28.5	300	12	800	1C	1	100,31
600788	24	315	33.5	400	14	1280	1C	1	134,60
600789	27	355	38.5	400	20	2220	1C	1	150,65
600790	30	425	42.5	400	20	2450	1C	1	165,83
600791	32	430	48	400	20	2815	1C	1	196,33

213/6

Cheie cruce pentru roti

- *material:crom vanadiu*
- *forjata, calire si revenire totala*
- *vopsite*
- *in conformitate cu standardul ISO 6788 (numai dimensiuni in mm)*





600810	17	19	11/16"	1/2"	370	1355	1F	1	168,94
600811	17	19	22	1/2"	370	1430	1F	1	168,94
600809	17	19	21	23	370	1511	1F	1	150,46
600812	17	19	22	24	370	1500	1F	1	150,46
600813	24	27	30	3/4"	700	4400	1F	1	341,34
600814	24	27	30	32	700	4600	1F	1	341,34

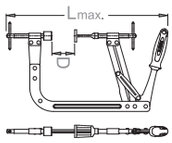


2202/2BI

Scula de comprimare arcuri de pistoane

- *material:otel carbon de scule*
- *tratament termic integral*
- *Acoperire:cromare*
- *recomandata la majoritatea tipurilor de motoare datorita varietatii de reglaje de care dispune*
- *Scula de comprimare arcuri de supape nu contine piesa de presare*
- *4 piese de presare (art.2201.1) permite lucrul la majoritatea tipurilor de motoare si sunt disponibile si ca piese de schimb*
- *folositi-le rapid si sigur cu levierul de blocare*
- *dupa reglarea sculei pe primul piston, viteza de lucru creste deoarece reajustarea pentru celelalte pistoane nu mai este necesara.*
- *reglarea bratelor asigura persiunea dorita pe arc*
- *bratul consola extra lung pentru motoarele mari*
- *Scula este utilizata pentru detasarea arcurilor de pistoane si asigura o blocare a bratului si reglare rapida, fapt ce permite utilizaera la toate tipurile de motoare*





UNIOR

	L	D				
619722	430	20 - 250	1810	1C	1	445,20

2202.1/2

Piesa pentru comprimare arcuri pistoane

- *material:otel carbon de scule*
- *capul cheii este tratat in intregime*
- *dimensiunile 21,25 pentru motociclete, 21,25,30,35,43 pentru masini*



UNIOR

	D				
620567	21	46	1E	1	47,72
620208	25	54	1E	1	55,02
620209	30	62	1E	1	64,07
620210	35	84	1E	1	72,43
620211	43	106	1E	1	110,76

2206

Scula universala de centrare a ambreajului

- *proiectata pentru majoritatea vehicolelor cu un singur ambreaj*
- *pentru ambreaj pana la 15-28 mm*
- *usor de utilizat*
- *Dispozitivul cu nr de art 2206 este singura scula de aliniat ambreajul pentru majoritatea ambreajelor de autoturisme.Aceasta se face direct intre disc si placa de presiune utilizand dispozitivul de aliniere pentru a le monta impreuna.Dupa ce dispozitivul este retras cele doua parti sunt legate si aliniate cu axele lor*



UNIOR





619730	211	1C	1	74,96

2035

Perie pentru curatarea discurilor de frana

- *pentru curatarea discurilor de frana inaintea instalarii precum si a altor parti metalice*
- *forma ingusta pentru acces in spatii inguste*
- *Franarea cauzeaza uzura discurilor si acumularea de material pe acestea.Acesta trebuie curatat. Forma ingusta a periei permite curatirea rapida precum si curatirea altor suprafete metalice ce necesita acest lucru.*



UNIOR

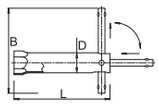
619739	73	1E	1	33,37

185/2

Cheie de bujii

- *material:otel carbon de scule*
- *acoperire cromare conform EN12540*





UNIOR

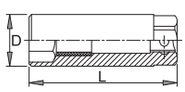
		D	L	B				
600771	16	19	145	120	182	1E	10	22,38
607956	19	22	115	120	199	1E	10	23,01
600772	21	24	115	120	177	1E	10	23,40
600773	21	24	180	120	248	1E	10	24,66

186.4/2

Cheie de bujii cu patrat de 3/8"

- *material:crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*





UNIOR

		D	L					
603193	16	22	63	19	68	4B	10	18,73
620820	18	24.7	63	22	68	4B	10	20,14
603192	19	26	63	22	68	4B	10	21,79
600776	21	27	66	19	68	4B	10	34,68

186.4/2A

Cheie de bujii 3/8"

- *material: crom molibden*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*



UNIOR

		D	L					
622513	14	18	63	17	58	4B	10	37,65

2205

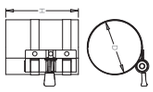
Dispozitiv de montat pistoane

- *utilizat pentru montarea pistoanelor la majoritatea autoturismelor*
- *constructie de inalta calitate cu carcasa din otel de arc*
- *cu surub de inchidere si reglare*
- *disponibi intr-o mare varietate de marimi*
- *aceasta scula este utilizata pentru montarea pistoanelor si inelelor de pistoane in cilindru.Diferite dimensiuni sunt disponibile.*

Cum sa utilizați scula:

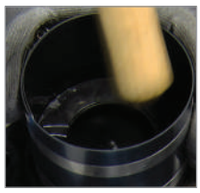
- *Introduceti pistonul si garniturile in interiorul dispozitivului si introducetile in camasa cilindrului*

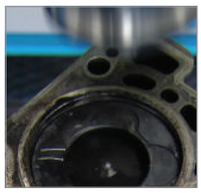




UNIOR







	H	D	D				
619725	50	1 3/4" - 3 1/2"	40 - 90	178	1G	1	**65,91**
619726	80	2 1/4"- 5"	57 - 125	291	1G	1	**73,60**
619727	80	3 1/2" - 7"	90 - 175	320	1G	1	**81,29**
619729	165	3 1/2" - 7"	90 - 175	587	1G	1	**155,66**

2033/2PB

Dispozitiv de comprimarea pistonaselor de frana

- *material:otel carbon de scule*
- *pentru filete pe dreapta si pe stanga*
- *in cutie de plastic si suport pentru componente*
- *Cele 8 adaptoare ce sunt impreuna cu scula fac pozibila comprimarea majoritatii pistonaselor de frana in timpul schimbarii placutelor de frana*

Cum sa utilizați scula:

- *Introduceti scula intre placute si rotiti usor si constant pentru comprimarea pistonaselor, in acest fel eralizand spatiu suficient pentru schimbarea placutelor*

Utilizati pentru:

- *Audi, Fiat, Ford, Nissan, Renault, VW, Citroen, Seat, Mercedes-Benz, Opel*



UNIOR

622637	700	1G	1	**868,70**

2203/2BI

Scula pentru rotirea arborelui cu came

- *material:crom vanadium*
- *material stifturi otel special de scule*
- *pentru pozitionarea arborelui cu came, pompei de injectie*
- *pentru reglare distributie de la 24 la 160 mm*
- *diponibil pentru dimensiunile: Ø5.7, Ø7.7, Ø9.7, Ø11.7, Ø18*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *utilizat pentru pozitionarea arborelui cu came in pozitia in care surubul central poate si desurubat anterior inlocuirii arborelui. Scula extrem de usor de utilizat pentru toate tipurile de arbori cu came*



UNIOR

	L				
619723	525	1435	1F	1	**326,21**

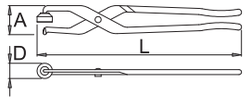
431/2

Clesti pentru arcuri frana

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap tratat, suprafata fosfatata, finisare:cromare*







UNIOR

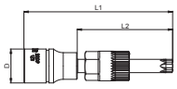
	L	A	Ø D				
601554	325	53	25	423	4B	5	**103,13**

2209

Cheie combinata pentru alternator

- *Cele doua parti ale cheii pentru alternator permit o demontare usoara si o montare a acestuia pe suport precum si demontarea acestuia pentru reparare. Alternatorul este blocat cu un profil XZN multispline interior simultan, suportul retine surubul pe ax realizand eliberarea sau strangerea acestuia.Scula este disponibila cu patrat de 1/2" cu profil ZXN-M10 bit si patrat d e1/2" cu TX 50 Bit*





UNIOR

		D	L1	L2				
620225	M 10	23.8	113	75	178	4B	1	**54,68**
620948	TX 50	23.8	113	75	176	4B	1	**54,68**

200/2

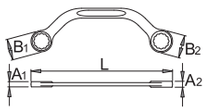
Chei inelare semiluna

- *material:crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*





UNIOR



		L	B1	B2	A1	A2				
600671	11 x 13	150	16.5	19	7	8.5	54	4A	10	**38,58**
600672	13 x 17	185	19.2	24.2	8.7	10.3	99	4A	10	**43,44**
600673	14 x 17	185	20.5	24.2	8.7	10.3	104	4A	10	**43,44**
600674	15 x 16	185	21.6	23.6	8.7	10.3	104	4A	10	**43,44**
600676	19 x 22	230	27.2	31.8	10	11.5	178	4A	10	**55,75**

200/2CB

Set de chei inelare semiluna in cutie de carton



UNIOR

600677	11 - 22 / 5	605	1F	1	**224,64**

200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)

2211

Set pentru demontarea ambreiajelor SAC

- *material:otel carbon*
- *capul cheii este tratat in intregime*
- *acest dispozitiv permite o demontare si o montare rapida a ambreajelor auto-reglabile SAC.Autoreglarea ambreajului se realizeaza su mici arcuri de reglare in interiorul discului.Fara aceasta scula montarea corecta a ambreajului este practic imposibila, ducand de asemenea la stress sau deteriorarea ambreajului.Ca regula a unui ambreaj acesta nu poate decupla sau patina.Scula protejeaza ambreajul impotriva deteriorarilor in timpul montarii si demontarii si previne orice rotire ale inelelor de reglare in interiorul discului.Scula este recomandata pentru ambreaje cu autoreglare la VW, Audi, BMW, Mercedes, Volvo, Opel/VAuxhall, Renault si alte marci*

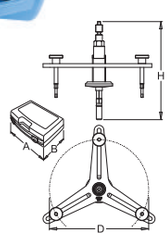
Avantaje:

- *1. pre-tensionarea discului de ambreiaj in timpul dezinstalarii si instalarii (acest lucru este important pentru a evita solicitarea ambreiajului)*
- *2. centrarea ambreiajului inspre directia rulmentului sau inspre discul de ambreiaj*
- *3. retragerea inelului ajustabil cu ajutorul sculelor extractoare*
- *Dimensiunea cutiei : 393 x 331 x 95*



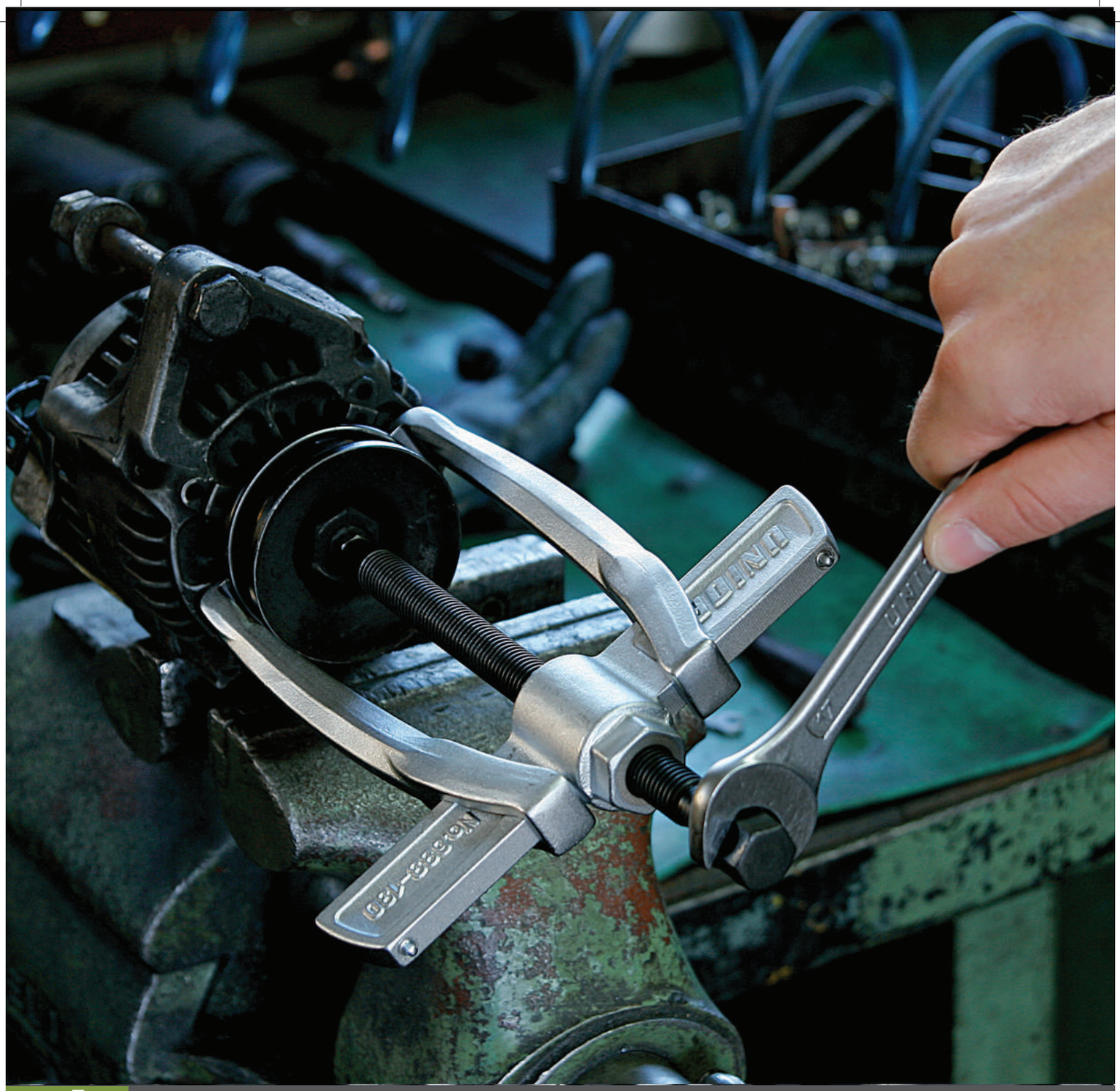
UNIOR





	A	B	DT	H				
620233	305	268	322	267	7400	1G	1	**1858,68**





EXTRACTOARE

O mai mare rezistenta

Fie ca sunt prevazute cu doua, trei sau cinci brate reglabile, de un ciocan culisant sau de o mandrina extractoare, sau e vorba de multe alte versiuni disponibile, extractoarele sunt toate fabricate din otel carbon.
Un proces de forjare special le garanteaza o rezistenta superioara.

Usor de utilizat

Sistemele de extractie permit extragerea eficace si sigura a rulmentilor, pinioanelor si elementelor de suspensie.
Toate extractoarele noastre au o utilizare usoara si flexibila si sunt extrem de rezistente

UNIOR NEXUS

CORP

1. Taiere: Bara de otel este decupata de o masina la forma ceruta; precizia decuparii asigura un surplus minim de materie prima

2. Forjeaza: Piesele forjate sunt facute folosind turnarea la cald. Aceasta permite forme variate si ergonomice ale produselor. Orientarea potrivita a fibrelor (aceeasi ca in barele de otel) este mentinuta folosind procesele corespunzatoare de forjare.

3. Debavurare: eliminarea bavurilor dupa forjare.

4. Operare CNC: O masina CNC este folosita pentru uzinarea precisa a capului extractorului, care asigura miscarea lina pe manerele mici.

5. Filetare: Filetul de pe axul central este de mare precizie datorita formei trapezoidale care asigura o miscare usoara filetului central si permite o ajustare rapida si precisa.

6. Tratament termic (calire si revenire): Tratamentul termic de durizare si calire este folosit pentru imbunatatirea structurii otelului, ca sa furnizeze o mai buna rezisenta si duritate produsului si alte caracteristici necesare pentru a depasi tensiunile pe care le cere lucrul cu acest produs.

7. Sablare: curatarea suprafetei inainte de cormare este importanta pentru marirea calitatii si durabilitatii protectiei suprafetei.

8. Cromare: Manerul extractorului este placat cu un strat subtire si dur de oxid de crom care protejeaza contra coroziunii, uzurii si a altor defecte mecanice. In acelasi timp, da intregului extractor un aspect lucios.







AXUL CENTRAL

9. Piesa forjata: Forjarea piesei este facuta la cald, ceea ce da forma capului.

10. Operare CNC: Pentru a crea filetul de pe axul central foarte precis a fost folosita o masina CNC.

11. Filetare: Filetul este de forma trapezoidala pentru a oferi o rezistenta mai buna la sarcini mari.

12. Tratament termic (calire si revenire): Tratamentul termic de durizare si calire este folosit pentru imbunatatirea structurii otelului, ca sa furnizeze o mai buna rezisenta si duritate produsului si alte caracteristici necesare pentru a depasi tensiunile pe care le cere lucrul cu acest produs.

13. Sablare: curatarea suprafetei inainte de cormare este importanta pentru marirea calitatii si durabilitatii protectiei suprafetei.

14. Brunare: Brunarea da finsarea definitiva filetului de antrenare, apoi acesta este uns cu ulei pentru a asigura o protectie eficace.





MANER MIC

15. Brosarea gaurii: Brosarea interna e realizata in doua etape.Intai se da o gaura la dimensiunea dorita, apoi se realizeaza brosajul la interior. Aceasta permite o miscare optima pe maner deasupra capului extractorului.

16. Operare CNC: Manerul uzinat de o masina CNC aduce o precizei mai mare si aceasta amelioreaza functiile sculei.

17. Tratament termic (calire si revenire): Tratamentul termic de durizare si calire este folosit pentru imbunatatirea structurii otelului, ca sa furnizeze o mai buna rezisenta si duritate produsului si alte caracteristici necesare pentru a depasi tensiunile pe care le cere lucrul cu acest produs.

18. Sablare: curatarea suprafetei inainte de cormare este importanta pentru marirea calitatii si durabilitatii protectiei suprafetei.

19. Cromare: Manerul extractorului este placat cu un strat subtire si dur de oxid de crom care protejeaza contra coroziunii, uzurii si a altor defecte mecanice. In acelasi timp, da intregului extractor un aspect lucios.







ASAMBLARE

20. Asamblare finala: Lucratori antrenati, indemanatici si meticulosi care executa asamblarea finala vor asambla produsul intr-un intreg care asigura functionalitatea si calitatea inalta a produsului.



689/2BI

Extractor inertial

- *material:otel special de scule*
- *forjare, calire si intarire totala*
- *finisarea suprafetei: acoperire cromare conform EN12540*
- *maner ergonomic rezistent bimaterial*

Avantaje:

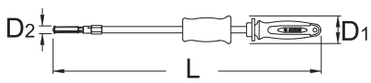
- *Set de 6 piese ale extractorului inertial Dimensiuni: 7-9,10-12, 12-15, 17-22, 22-28, 30-36*

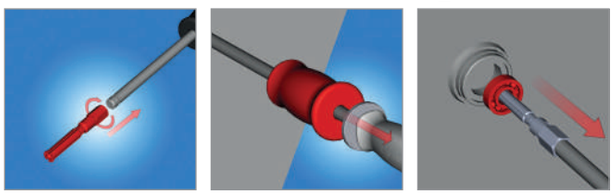
Utilizare

- *Este folosit pentru extragerea diferitelor tipuri de rulmenti.Rulmentul este blocat la partea interioara si extras*
- *rulmentul este extras cu o greutate de 1 kg*



UNIOR





	D1	D2↓	D2↑	L↓	L↑				
622587	52	6,5	36	495	555	3300	1G	1	**1121,61**

51 - N SG

Set extractor pentru rulmenti cu ace in cutie

- *se poate folosi si la rulmenti cu bile sau bucse.*
- *pentru automobile : BMW, CITROEN, FIAT, FORD, DB, OPEL, PEUGEOT, PORSCHE, RENAULT, ROVER, SAAB, VOLVO, VW, NISSAN, DATSUN, TOYOTA, etc.*



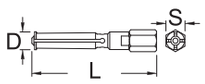
NEXUS

	Diametru	
51-NSG	11-20	**865,28**

689.1/4

Bucsa elastica pentru 689/2BI





UNIOR

	D	L	S				
623089	6,5 - 8	81	14	45	1E	1	**82,94**
623090	10 - 12	83	14	51	1E	1	**83,13**
623091	12 - 15	92	14	67	1E	1	**84,06**
623092	17 - 20	102,5	14	136	1E	1	**115,00**
623093	22 - 28	125	17	276	1E	1	**137,13**
623094	30 - 36	140	22	500	1E	1	**185,78**

51

Extractor interior cu fante

- *diametru 10-13 mm*
- *lungime 30 mm*



NEXUS

	Diametru	Lungime	Nm	SW 1	SW 2	
51-1A	10-13	30	15	10	13	**289,95**

51 - E

Extractor interior cu fante

- *diametru 40-75 mm*
- *lungime 30 mm*



NEXUS

	Diametru	Lungime	Nm	SW 1	SW 2	
51-E7	40-75	100	45	17	24	**737,14**

52

Extractor inertial

- *diametru 40-75 mm*
- *lungime 30 mm*



NEXUS

	Filet	Maner	Tija	
52-02A	M10 + G 3/8”	Ø45x100/0,7kg	Ø16x250	**474,95**

146

Extractor de flanse inertial



	Diametru	Bolturi	Ciocan	Tija	Filet	
146	100-150	>14	60x100	16x330	M16x1,5	**1039,32**

685/2

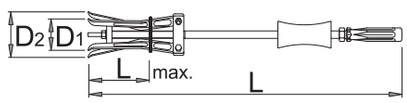
Extractor inertial

- *material: otel special de scule*
- *ghearele forjate, tratate*
- *falcile tratate prin inductie*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*

Avantaje:

- *set de brate, pentru diametre mici si mari*
- *utilizat pentru locuri greu accesibile*
- *maner ergonomic, rezistent, bimaterial*





	D1	D2	LT	L				
601771	30 - 80	120 - 180	125	600	2625	1H	1	**817,19**

63-SET1

Set extractor pentru piese cu filet interior

- *extractor inertial 1,0 kg (63-H)*
- *insertie cu filet M4 (63-M4)*
- *insertie cu filet M5 (63-M5)*
- *insertie cu filet M6 (63-M6) - 51-6B*
- *insertie cu filet M8 (63-M8)*
- *insertie cu filet M10 (63-M10)*
- *insertie cu filet M12 (63-M12)*
- *adaptor pentru extractor interior 51-0A - 51-6B (63-A)*



63-SET1	**759,40**

63-SET2

Set extractor pentru piese cu filet interior

- *extractor inertial 1,0 kg (63-H)*
- *insertie cu filet M4 (63-M4)*
- *insertie cu filet M5 (63-M5)*
- *insertie cu filet M6 (63-M6)*
- *insertie cu filet M8 (63-M8)*
- *insertie cu filet M10 (63-M10)*
- *insertie cu filet M12 (63-M12)*
- *adaptor pentru extractor interior 51-0A - 51-6B (63-A)*
- *extractor interior 9-12 mm (51-0C)*
- *extractor interior 13-17 mm (51-1B)*
- *extractor interior 18-23 mm (51-2C)*



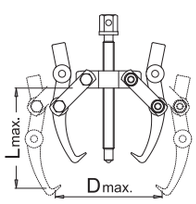
63-SET2	**1165,91**

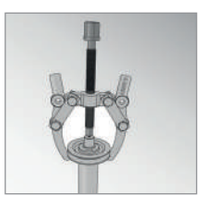
680/2

Extractoare cu doua brate reglabile

- *material: otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*
- *bratele reglabile in doua pozitii*
- *gheara extractoare se pozitioneaza sub partea de extras*







	Nº	LT	DT				
612603	0	90	90	405	1H	1	**167,58**
601762	1	160	130	915	1H	1	**227,95**
601763	2	230	190	1905	1H	1	**395,39**
601764	3	300	250	4075	1H	1	**537,58**

680.1/4

Surub

- *material:otel special de scule*
- *forjata, tratament termic total*
- *acoperire:brunare*



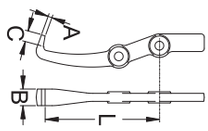
	M	L	S				
623062	Tr 10 x 1,5	114	14	75	1E	1	**31,42**
623063	Tr 14 x 2	173	17	195	1E	1	**39,79**
623064	Tr 18 x 2	239	22	510	1E	1	**53,95**
623065	Tr 26 x 3	311	32	1270	1E	1	**134,26**

680.2/2

Brat

- *material: compozitie speciala pentru calire revenire*
- *forjat, tratat complet*
- *suprafata: cromata in concordanta cu standardul EN 12540*





	L	A	B	C				
623069	70	2,6	10	7,5	56	1E	1	**17,46**
623070	105	3,5	15,5	10	155	1E	1	**22,33**
623071	170	6,5	19	20	352	1E	1	**36,05**
623072	220	7	22	22,5	700	1E	1	**69,76**

680/2MS

Set de extractoare cu doua brate reglabile



612655	4	10153	1F	1	**1463,39**

680/2 (0 x 90 x 90, 1 x 160 x 130, 2 x 230 x 190, 3 x 300 x 250),
980P2 (240 x 200 x 430)



681/2

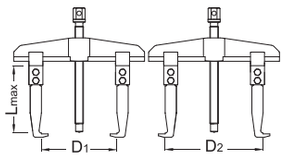
Extractoare cu doua brate glisante

- *material:otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*

Avantaje:

- *prin intoarcerea bratelor, extractorul poate fi de interior sau de exterior*
- *design rigid si robust pentru lucrari dificile*





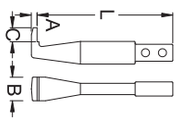
	Nº	B	D1	D2	L				
601765	300	280	70 - 220	110 - 260	150	3355	1H	1	**568,47**
601766	400	450	110 - 360	190 - 450	200	8725	1H	1	**1025,19**

681.2/2

Brat

- *material: compozitie speciala pentru calire revenire*
- *suprafata: cromata in concordanta cu standardul EN 12540*





	L	A	B	C				
623073	142	8	25	15	327	1E	1	**41,59**
623074	180	13	40	24	768	1E	1	**82,06**

683/2

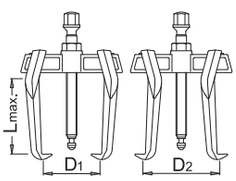
Extractoare cu doua brate glisante

- *material: otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*
- *gheara extractoare se pozitioneaza sub partea de extras*

Avantaje:

- *prin intoarcerea bratelor, extractorul poate fi de interior sau de exterior*





	Nº	L	D1	D2				
615076	60	90	65	50 - 90	325	1H	1	**245,85**
615077	90	90	90	50 - 110	395	1H	1	**263,41**
615078	130	140	130	80 - 140	1125	1H	1	**349,47**
615079	180	140	180	80 - 180	1225	1H	1	**424,77**
615080	250	195	250	130 - 250	4025	1H	1	**658,02**
615081	350	195	350	130 - 350	4525	1H	1	**739,89**

683.1/4

Surub

- *material:otel special de scule*
- *acoperire:brunare*



UNIOR

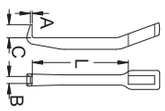
	M	L	S				
623066	Tr 10 x 1,5	134	14	85	1E	1	**35,36**
623067	Tr 14 x 2	201	17	250	1E	1	**45,58**
623068	Tr 26 x 3	286	32	1180	1E	1	**97,53**

683.2/2

Brat

- *material:compozitie speciala pentru calire revenire*
- *forjat, tratat complet*
- *suprafata:cromata in concordanta cu standardul EN 12540*





UNIOR

	L	A	B	C				
623075	90	1,1	8	10	98	1E	1	**24,13**
623076	140	2	12	15	240	1E	1	**47,33**
623077	195	3	16	22	812	1E	1	**117,43**

683/2MS

Set de extractoare cu doua brate glisante



UNIOR

615082	6	13859	1F	1	**2884,89**

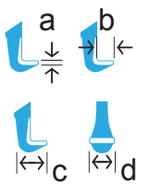
683/2 (60, 90, 130, 180, 250, 350), **980P2S** (240 x 250 x 430)

135

Presa cu 2 brate

- *cu surub de fixare a bratelor*
- *pentru spatii extrem de inguste*
- *surub (filet x lungime): G 1/2"x 14 x 270 mm*





NEXUS

	Diametru	Lungime	Nm	tone	SW	a	b	c	d	
135-3	50-300	250	120	6	22	5	25	48	30	**918,67**
135-5	50-400	400	120	6	22	5	25	48	30	**1135,15**
135-7	50-500	500	120	6	22	5	25	48	30	**1306,04**

S100

Set extractor KRALLEX cu 2 brate subtiri si inguste



NEXUS

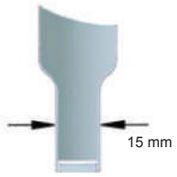
	Diametru	Lungime	Brat	
S100-14	25-130	100/200/250	KRALLEX 3,6	**1616,02**

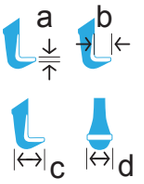
95-1SP

Presa cu 2 brate

- *cu surub de fixare a bratelor*
- *pentru spatii extrem de inguste*







NEXUS

	Diametru	L	Nm	tone	filet	SW	a	b	c	d	
95-1SP	0-60	50	25	1,5	M12x90	13	2,5	3	6	15	**730,72**

174

Set extractori cu 2 brate si amplificator hidraulic

• contine 100-1, 100-2, 1-200, 2-300, 105-1, 170-2



NEXUS

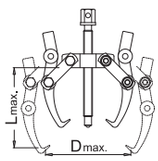
174	5354,74

682/2

Extractoare cu trei brate reglabile

- *material:otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*
- *bratele reglabile in doua pozitii*
- *gheara extractoare se pozitioneaza sub partea de extras*





UNIOR

	№	Lī	Dī				
612604	0	90	90	305	1H	1	221,58
601767	1	160	130	1725	1H	1	273,04
601768	2	230	190	2570	1H	1	455,32
601769	3	300	250	5100	1H	1	668,87

682/2MS

Set de extractoare cu trei brate reglabile



UNIOR

622805	4	11850	1K	1	2160,62

682/2 (0 x 90 x 90, 1 x 160 x 130, 2 x 230 x 190, 3 x 300 x 250),
980P3A (283 x 329 x 428)

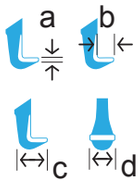
F113 - 2,5

Presa universala cu 3 brate si cu cilindru hidraulic

• surub (filet x lungime): M10 x 90 mm

12 t / 120 KN





NEXUS

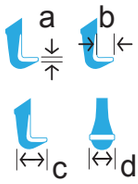
	Diametru	Lungime	Nm	tone	SW	a	b	c	d	
F113-2,5	50-200	145	60		13	4	16	35	25	2647,85

100-M

Presa universala cu 3 brate

• extractor universal cu 3 brate culisante care raman paralele tot timpul, construit pentru conditii grele de lucru, cu diferite lungimi de brate
• surub (filet x lungime): M10 x 90 mm





NEXUS

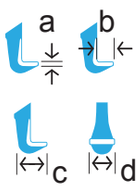
	Diametru	Lungime	Nm	tone	SW	a	b	c	d	
100 - M1	100-380	200	400	15	36	5	25	54	35	4708,40
100 - M2	120-520	200	400	15	36	5	25	54	35	5576,32

113 KRALLEX

Extractor KRALLEX cu 3 brate

• 3 brate de lungime standard, culisante pentru pastrarea paralelismului, bratele sunt plate si au ciocurile de agatare subtiri
• setul de brate se poate comanda pe diferite lungimi
• surub (filet x lungime): G1/2"x14x210





NEXUS

	Diametru	Lungime	Nm	tone	SW	a	b	c	d	
113 - 24	60-200	150	150	6,5	22	5	7,5	15	40	1594,36

62 - 1K

Set extractor pentru rulmenti cu bile

cu 3 brate reglabile radial in cutie

• face posibila scoaterea rulmentilor din carcasa fara a demonta utilajul si fara a scoate arborele.
• se poate folosi si la scoaterea rulmentilor de pe arbore atunci cand nu exista suficient loc pentru o presa exterioara.
• EX: SKF, FAG, Timken, NTN si rulmenti similari de la alti producatori

AVANTAJE :
• lucreaza cu trei brate se pot folosi pana la patru brate
• bratele sunt reglabile radial in functie de numarul de bile
• manevrare usoara de un singur lucrator
• formeaza un bloc rigid pentru extragere in siguranta
• bratele nu se pot rasuci
• bratele nu pot aluneca in lateral
• lungime mare cand se folosesc prelungitoarele de brat suplimentare



Instructiuni de utilizare:
- se gaureste colivia rulmentului intre bile
- se introduce un brat in gaura si se rasuceste la 90 grade
- se fixeaza acest brat in suport cu un surub de fixare
- se regleaza surubul de actionare incat sa fie in contact cu arborele
- se introduc celelalte brate in rulment se rotesc si se fixeaza in suport
- se aseaza bratele radial incat pozitia lor sa fie echilibrata
- se strange piulita de pe suport ca sa obtinem o structura rigida
- se invarte surubul de actionare





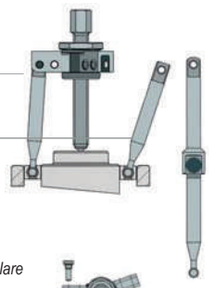
lungime standard: 90 mm



prelungitor de brat:
plus 95 mm

asamblare rigida:
un brat si suportul

doua brate reglabile radial
(se strang suruburile pentru fixarea bratelor)



punctele rosii sunt repere pentru asamblare

incepeti cu fixarea unui brat in suport, montarea surubului de actionare in contact cu arborele si apoi montarea celorlalte brate



Continut 22 piese:
1 suport cu trei brate
3 seturi de brate (cate 3 brate/set)
3 prelungitoare de brat
6 suruburi de fixare
1 surub de actionare
2 prelungitoare pentru surubul de actionare

pentru extractoare cu bile ISO:
6004 - 6015
6200 - 6211
6300 - 6307
6403 - 6404

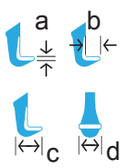
	Diametru	Lungime	Diametru brate			Surub (filet x lungime)	SW	Cuplu max.	Capacitate max.	Greutate	
62 - 1K	18-130	95 + 95	Ø5.5 mm	6.0 mm	Ø8.0 mm	M14x1,5x130	17	60	5 tone (50 kN)	2,8 kg	**2607,54**

E113

Extractor universa cu 3 brate cu piulite rapide "EXTRA"

• utilizare pe exterior si interior, apucarea se face cu bratele paralele, bratele au lungime standard
• optional brate de diverse lungimi





	Diametru	Lungime	Nm	tone	SW	a	b	c	d	Pret
E113-1,5	25-130	100	90	5,5	17	3	13	25	20	**707,99**

S113

Set extractor KRALLEX cu 3 brate subtiri si inguste



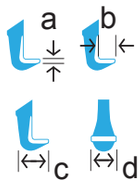
	Diametru	Lungime	Brat	Pret
S113-14	25-130	100/200/250	KRALLEX 3,6	**2363,80**

136

Presa cu 3 brate

- *cu surub de fixare a bratelor*
- *pentru spatii extrem de inguste*
- *surub (filet x lungime): G 1/2"x 14 x 270 mm*





NEXUS

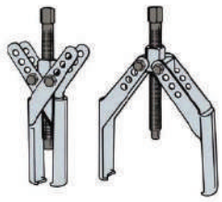
	Diametru	Lungime	Nm	tone	SW	a	b	c	d	
136-5	50-400	400	220	12	22	5	25	48	30	**1479,57**
136-7	50-500	500	220	12	22	5	25	48	30	**1737,99**
136-10	50-500	650	220	12	22	5	25	48	30	**2005,27**

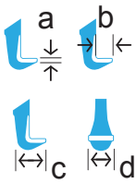
314

Extractor tip foarfeca cu autocentrare

- *surub (filet x lungime): M10 x 105 mm*







NEXUS

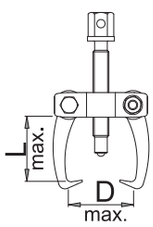
	Diametru	Lungime	Nm	tone	SW	a	b	c	d	
314-1	6-100	70/80	25	1,5	12	2,5	4,5	8,5	23	**629,79**

687/2

Extractoare cu cinci brate reglabile

- *material:otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*
- *design rigid si robust pentru lucrari dificile*





UNIOR

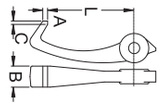
	LT	DT				
602848	120	47	1015	1H	1	**545,02**

687.2/2

Brat

- *material:compozitie speciala pentru calire revenire*
- *forjat, tratat complet*
- *suprafata:cromata in concordanta cu standardul EN 12540*





UNIOR

	L	A	B	C				
623078	64	1	15,5	2,5	87	1V	1	**31,18**

2026/2

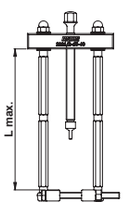
Extractor

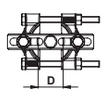
- *Extractorul este confectionat din otel de inalta calitate.*
- *Protectia surubului:brunat, celelalte elemente sunt cromate*
- *Extractorul este destinat la demontarea usoara a diverselor componente de pe axe.*
- *Este indispensabil pentru demontarile sigure si fara deformari ale componentelor fixate pe diverse parti ale masinii.*
- *Gama acestui produs cuprinde trei dimensiuni de extractoare utilizate pentru extragerea pieselor de pe arbori de la Ø5mm la Ø115mm*

Avantaje:

- *Extractorul este compus din jug, surub, doua brate si un ansamblu de blocare care toate in ansamblu permit o demontare uniforma*
- *Extractorul asigura lucrul eficient si in siguranta*

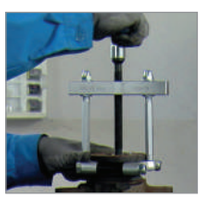






UNIOR







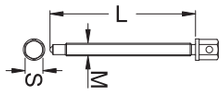
	D	LT				
619273	5 - 60	229	2160	1G	1	**612,25**
619274	12 - 75	234	2930	1G	1	**667,70**
619275	22 - 115	325	7180	1G	1	**1073,94**

2026.1/4

Surub pentru 2026/2

- *material: otel special de scule*
- *acoperire: brunare*





UNIOR

		M	L	S				
623948	5 - 60	Tr 14 x 2	173	17	240	1V	1	**45,34**
623949	12 - 75	Tr 16 x 2	177	19	312	1V	1	**49,47**
623950	22 - 115	Tr 20 x 2	294	22	770	1V	1	**93,98**

2026.3/2

Jug pentru 2026/2



UNIOR

623951	5 - 60	505	1V	1	**122,83**
623952	12 - 75	971	1V	1	**155,18**
623953	22 - 115	2405	1V	1	**266,28**

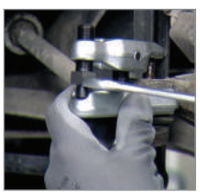
2032/2

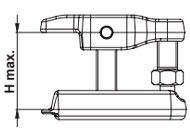
Extractor de pivoti

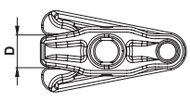
- *material:otel carbon*
- *capacitate falci 23 mm*
- *cursa maxima 53 mm*
- *pentru extragerea pivotilor de la mecanismul de suspensie*



UNIOR







	D	H				
619736	23	53	780	1C	1	**315,75**

169-2P

Extractor de pivoti universal reglabil

- *pentru turisme AUDI, ALFA-ROMEO, BMW, CITROEN, FIAT FORD, HONDA, MB, OPEL, PEUGEOT, RENAULT, SAAB, SEAT, SKODA, VOLVO, VW*



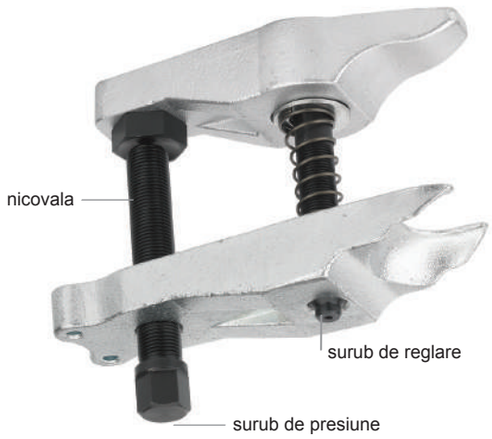
NEXUS

	Deschidere	Adancime	Nm	Tone	Filet	SW	
169-2P	24	60-80	40	3,5	M16x1,5x90	17	**897,58**

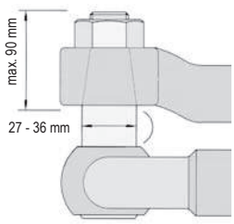
169-4

Presa pentru articulatii (pivoti si bielete)

- *testat in conditii de lucru grele*
- *pentru dube si camioane mijlocii*
  MB Atego pana la 17t / MAN M 2000 / IVECO / RENAULT / SCANIA / VOLVO / DAF
- *surub de reglare (filet x lungime): M18 x 1,5 x 120 mm*
- *surub de presiune (filet x lungime): G 1/2"x 14 x 110 mm*







surubul de actionare este prevazut cu o piulita care poate fi insurubata in sens invers pentru strangerea pivotului

UTILIZARE: se aseaza presa intre bila si brat, se regleaza bratul superior al presei paralel cu bratul cu furca, se fixeaza cu piulita, apoi se actioneaza surubul sau cilindrul hidraulic pentru separarea pieselor.

NEXUS

	Deschidere	Adancime	Nm	Tone	Filet	SW	
169-4	36	90	200	10	M18x1,5	22	**1185,39**

169-5

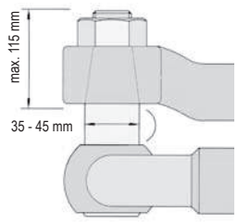
Extractor de pivoti reglabil pentru camioane si autobuze

• testat in ateliere de camioane in conditii grele, folosit la camioane grele, autobuze cu podea joasa
• surub de reglare (filet x lungime): M24 x 1,5 x 150 mm
• surub de presiune (filet x lungime): G 3/4"x 14 x 125 mm

MB ACTROS, ATEGO, SK, O405, -N, -GN
MAN F2000, TG,A23, autobuze cu podea joasa
IVECO EURO-STAR, TECH, TURBO-STAR
RENAULT
SCANIA 3 si 4, ICARUS
VOLVO
DAF







surubul de actionare este prevazut cu o piulita care poate fi insurubata in sens invers pentru strangerea pivotului

NEXUS

	Deschidere	Adancime	Nm	Tone	Filet	SW	
169-5	45	115	200	20	M24x1,5	27	**2033,80**

165-K3

Set extractor pentru articulatii (pivoti si bielete)

• pentru automobile si utilitare



NEXUS

	Diametru	Lungime	Contine	
165-K3	23/28/34	55/55/63	Nr. 165-1, 165-2, 165,3	**1182,95**

165

Extractor de pivoti pentru turisme si utilitare

• 165-1 pentru AUDI, ALFA-ROMEO, BMW, CITROEN, FIAT, FORD, HONDA, MB, OPEL, PEUGEOT, RENAULT, SAAB, SEAT, SKODA, VOLVO, VW
• 165-2 pentru DUCATO din 1994, MB Sprinter, VW LT din 1998



NEXUS

	Diametru furca	Adancime	Nm	Tone	Filet	SW	
165-1	28	55	60	4	M16x1,5x60	17	**378,05**
165-3	34	63	80	4	M16x1,5x70	19	**402,60**

169-4H

Presa hidraulica pentru articulatii (pivoti si bielete)

• cu actionare hidraulica
• capacitate 27 - 36 mm
• filet UN-1 1/2" x 16

capacitate maxima
10 t (100 KN)



NEXUS

	Deschidere	Adancime	Nm	Tone	Filet	SW	
169-4H	36	90					**2199,90**

S167

Set extractor pentru pivoti (camioane)

• presa pentru pivoti diametru furca 18 mm (167-1)
• presa pentru pivoti diametru furca 25 mm (167-2)
• presa pentru pivoti diametru furca 29 mm (167-3)
• presa reglabila pentru pivoti diametru furca 18-22 mm (168-1)
• presa reglabila cu transmisie tip parghie pentru pivoti diametru furca 24 mm (169-1)
• extractor pentru pivoti si articulatii diametru furca 31,5 mm (166-3)



NEXUS

	Set	
S167	6 piese	**1865,82**

165-SHM03

Presa pentru suspensie multilink

Audi A4, - A6, VW Passat din 97

Piesa de presare plata



Bolt de scoatere





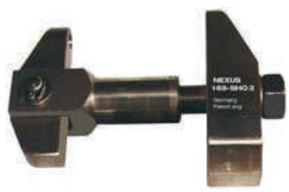
Piulita de reglare (pentru tensionare si reglare a parghiei de presare la 90 de grade fata de tija centrala)

Parghie de presare (pentru functionare optima se regleaza la aprox 90 de grade fata de tija centrala)

ATENTIE: eficienta optima se realizeaza cand parghia de presare este la 90 de grade
Fata de tija centrala, surubul de actionare este paralel.

Instructiuni :

1. Se desurubeaza piulita
2. Se monteaza piesa plata de presare in parghie
3. Se monteaza presa si se strange surubul de actionare
4. Se inlocuieste piesa plata cu boltul de scoatere si se repeta operatiunea
5. Se scoate surubul cu un dorn



165-SHO3	2082,41

2038

Extractor pentru inele interioare ale rulmentilor

- *Este folosit pentru a extrage usor, rapid si fara murdarie rulmentii interiori din butucul rotii. Scula este conceputa pentru a inlatura inelul de rulare al rulmentilor interiori fara riscul deteriorarii fara a avea nevoie de nici o alta scula cum ar fi pile, ciocane sau clesti. Scula are 4 bucse de urmarire care sunt folosite pentru a inlatura inelele de rulare ale rulmentilor interiori cu diametre de la 40 pana la 60 mm. Bucsa de urmarire strange inelul de rulare ferm si in felul acesta evita orice posibil derapaj. Scula poate fi folosita pentru: AUdi, BMW, Ford, Mercedes-Benz, Peugeot, Renault, Toyota, VW etc.*
- *cu 4 falci; dimensiunea 1 - de la 40 la 45, dimensiunea 2 - de la 45 la 50, dimensiunea 3 - de la 50 la 55, dimensiunea 4 - de la 55 la 60*





UNIOR







620228	3585	1G	1	2165,43

2038.1/4

Surub pentru 2038

- *material:otel special de scule*
- *acoperire:brunare*



UNIOR

623954	40 - 60	Tr 16 x 2	177	19	320	1V	1	72,29

2038.2/4

Bucsa elastica pentru 2038



UNIOR

623955	40 - 45	390	1V	1	289,97
623956	45 - 50	365	1V	1	289,97
623957	50 - 55	345	1V	1	289,97
623958	55 - 60	365	1V	1	289,97

2041/2

Dispozitiv de extras garnituri de instalatie homocinetice

Cum sa utilizați scula:

- *Extractorul este folosit la demontarea si repararea garniturilor homocinetice de dimensiuni variate. Inainte de a demonta garnitura, verificati daca articulatiile homocinetice pot fi deontate. Intai, indepartati capacul mobil si apoi introduceti articulatia in inel si, prin pozitionarea capacului ajustabil fixati articulatia in extractor. Articulatia homocinetica include o piulita care poate fi folosita la insurubarea sau desurubarea articulatiei. Inainte de a insuruba piulita, indepartati inelul de siguranta care sustine partea superioara si inferioara a articulatiei. Prin apasarea simultana a doua butoane, suportul poate fi ajustat la lungimea potrivita a articulatiei. Avantaje: Scula poate fi folosita la masini, nu deterioreaza articulatia, scurteaza timpul de demontare a articulatiei etc.*



UNIOR

620232	18 - 36	2130	1G	1	828,38

200

Extractor mandrina pentru inele interioare de rulmenti

- *pentru indepartarea inelelor interioare ale generatoarelor, motoarelor si altor componente ale masinii*
- *tensionare si eliberare usoara prin rotirea manuala a piulitei*



	Deschidere	Adancime	Nm	Coada	Filet	SW	
200	5-32	135	60	6x30	M14x1,5	17	**1257,99**

2051/4

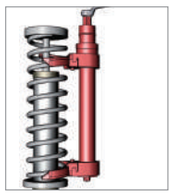
Scula pentru demontarea amortizoarelor si suspensiilor

- *Aceasta scula profesionala sub nr art 2051 destinata comprimarii arcurilor si demantarii suspensiilor McPherson. Are 3 seturi de gheare pentru diversitatea tipurilor existente.Demontarea arcurilor cere o forta mare si este riscanta, fapt pentru care s-a creat aceasta scula.Ghearele sunt ferm atasate de arc in timpul lucrului. Incarcarea recomandata 9000 N. Incarcarea maxima. 37000 N Scula se livreaza in cutie de plastic pentru siguranta si transport usor.*
- *in set 2 gheare 80-115, 2 gheare 110-150 si 2 gheare 140-195*

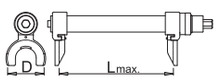
Cum sa utilizați scula:

- *Alegeti ghiarele adecvate*
- *Atasatile pe arc*
- *START Comprimati arcul*









	L		D				
619279	300	21	80 - 195	14600	1G	1	**2688,76**

306 - S1

Set pentru desfacut flanse de conducte

- *se foloseste la inlocuirea garniturilor sau la lucrari de intretinere la flanse de conducte tip DIN*



	Deschidere	Pentru suruburi	Filet	SW	
306-S1	80-250	M16 - M24	M24x1,5	24	**1975,11**

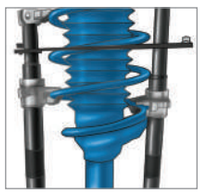
2052/4

Scula pentru demontarea arcurilor varianta usoara

- *pentru schimbare arcuri*
- *incarcarea max pana la 11000 N*
- *Unior are sistemul de la art 2051, dar autoturismele mai mici nu au nevoie de un dispozitiv asa de mare fapt ce a dus la creerea acestui art. Cu aceiasi functionalitate ce art 2051 dar incarcarea recomandata este de 2750 N. Are un element de protectie suplimentar care sa permita lucrul intotdeauna paralel*





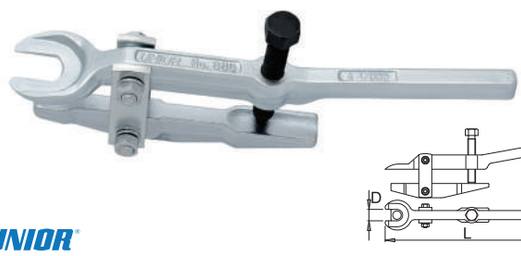


619733	19	4070	1G	1	**1135,23**

686/2

Extractor profesional pentru pivoti

- *material:otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*
- *pentru masini*

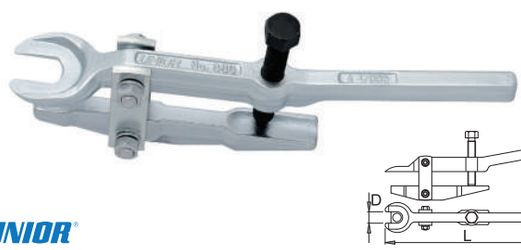


	D	L				
601772	16	260	925	1H	1	**265,16**

686/2A

Extractor profesional pentru pivoti

- *material:otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*
- *pentru masini*

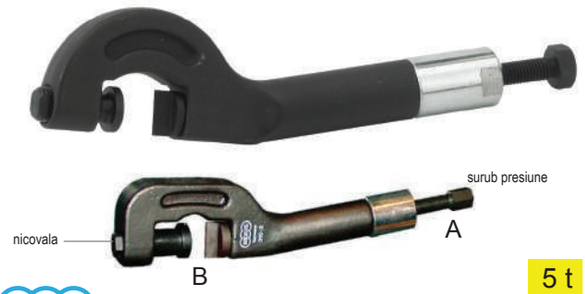


	D	L				
602369	18	260	1055	1H	1	**307,87**

310

Dispozitiv hidraulic pentru spart piulite

• *Se foloseste pentru piulite pana la grupa 10*
Taisul este tratat prin inductie
Pertii canalului sunt roluiti
Instructiuni de utilizare :
1. Se aseaza poansonul taietor perpendicular pe o fata a piulite si se strange menghina din celalalt capat pana la fixarea dispozitivului pe piulita.
2. Incet, cu intreruperi pentru a lasa partea hidraulica sa lucreze, se invarte surubul de actionare. Cateva lovituri usoare de ciocan in menghina vor amplifica efectul de crapare. Daca cursa poansonului nu este suficienta, se desface dispozitivul si se mai strange menghina.
3. Dupa finalizare se desfileteaza surubul de actionare in pozitia initiala (A). Poansonul nu se retrage automat si trebuie impins inapoi (B).



5 t

NEXUS

	Deschidere	Pentru piulite	Cuplu	Filet	SW	
310-1	SW7-22	M4-M14	45	M14x1,5	8	**1012,11**

S310-S1

Set dispozitive pentru spart piulite

Dispozitiv mecanic pentru spart piulite:
311-0 *capacitate 4-10 mm*
311-1 *capacitate 4-17 mm*

Dispozitiv hidraulic pentru spart piulite:
310-1 *capacitate 7-22 mm*



NEXUS

	Set	
S310-S1	4-22 mm / 3 piese **310-1** 7 - 22 mm; **311-0** 4 - 10 mm; **311-1** 4 - 17 mm	**1192,63**

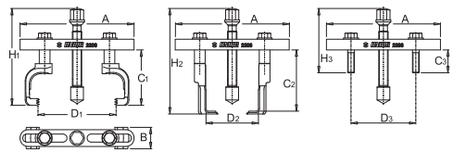
2208

Extractor ramificat pentru scripeti

• *Extractorul este folosit pentru demontarea scripetilor de forme diferite, folositi mai ales petru autovehicule pentru persoane. Scula este potrivita pentru scripeti cu urmatoarele diametre: min 45mm; max 235mm. Extractorul este folosit la indepartarea scripetilor din zonele greu accesibile, si in special fara rscul de a deteriora scripetele. Scula are 2 tipuri de gheare de extragere, care se potrivesc pentru mai multe tipuri de scripeti.*







UNIOR

	A	B	C1	C2	C3	D1	D2	D3	H1	H2	H3				
620223	171	32	60 - 82.5	69 - 91	34	80 - 150	40 - 120	40 - 150	200	213	152	2340	1C	1	**1116,74**

2208.1/4

fus pentru 2208

• *material:otel special de scule*
• *acoperire:brunare*



UNIOR

	M	L	S				
623959	Tr 14 x 1,5	110	17	170	1V	1	**49,03**

2208.1B/2

Surub extractor pentru 2208



UNIOR

	M	L	S				
623961	Tr 10 x 1,5	60	15	45	1V	1	**13,04**

2208.1A/2

Surub de brat pentru 2208



UNIOR

	M	L	S				
623960	Tr 10 x 1,5	30	15	35	1V	1	**11,92**

2208.2A/2

Brat extractor scurt pentru 2208



UNIOR

623962	130	1V	1	**79,19**

2208.2B/2

Brat extractor lung pentru 2208



UNIOR

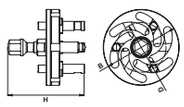
623963	175	1V	1	82,89

2210/2

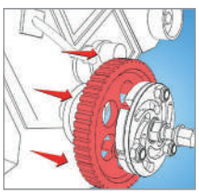
Extractor volante

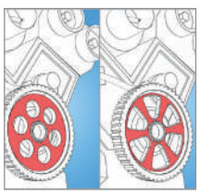
- *material:otel carbon*
- *capul cheii este tratat in intregime*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*
- *pentru inlocuirea rotilor cu 3,6,9 canale*
- *Scula este destinata inlocuirii volantelor cu suprafata canelata.Se executa demontarea fara niciun pericol de deteriorare a volantului.Scula este reglabila pe diverse diametre, ca si bratele reglabile*





UNIOR







620226	100	48 - 82	135	1085	1G	1	302,57

2210.1/4

Fus pentru 2210/2

- *material:otel special de scule*
- *acoperire:brunare*



UNIOR

623964	Tr 14 x 1,5	82,5	17	140	1V	1	42,52

2210.2/2

Brat pentru 2210/2



UNIOR

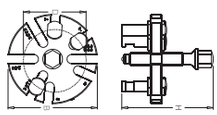
623966	50	1V	1	39,06

2210/2A

Extractor universal pentru roata distributie

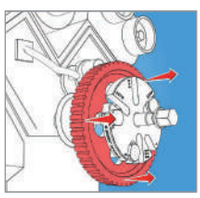
- *material:otel carbon*
- *capul cheii este tratat in intregime*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*
- *pentru inlocuirea tuturor tipurilor de roti (cu 2,3,4,5,6,7,8,9 canale)*
- *Scula este destinata inlocuirii volantelor cu suprafata canelata.Se executa demontarea fara niciun pericol de deteriorare a volantului.Scula este reglabila pe diverse diametre, ca si bratele reglabile*





UNIOR







	B	D	H				
621780	100	48 - 82	135	750	1G	1	343,19

2210.2/2A

Brat pentru 2210/2A



UNIOR

623967	50	1V	1	40,81

2210.1/4A

Fus pentru 2210/2A

- *material:otel special de scule*
- *acoperire:brunare*



UNIOR

623965	Tr 14 x 1,5	82,5	17	140	1V	1	45,58

105 - 1

Piston hidraulic pentru prese mecanice

- *presa va fi montata impreuna cu pistonul hidraulic intr-o pozitie sigura*
- *se roteste surubul de actionare al pistonului*
- *NU SE FOLOSESC SCULE DE IMPACT*
- *daca cursa pistonului nu este suficienta, se slabeste si se mai coboara surubul presei*



NEXUS

	Cursa	Cuplu maxim	Surub presiune	SW	
105 - 1	12	70 Nm	M14x1,5x85	17	1089,81

1941/2

Extractor pentru bratul stergatorului de parbriz fata

- *material carcasa si surub otel carbon de scule*
- *pentru inlocuirea stergatoarelor fata*
- *pentru majoritatea tipurilor de autoturisme*

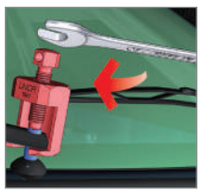
Avantaje:

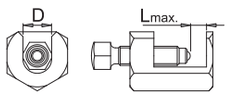
- *protectie de plastic in interiorul extractorului*

Cum sa utilizați scula:

- *Scula se foloseste la schimbarea stergatoarelor fata avand o constructie robusta si fiind destinat aplicatiilor de extragere ce necesita o forta importanta,tinand cont de faptul ca acesta este aproate lipit de axul de antrenare. Este utilizata pentru inlocuirea stergatoarelor de pe caroserie.Utilizarea sculei este rapida si eficace.*
- *se foloseste cu o chei de 17 mm*







UNIOR

	L1	D1				
619270	32	18	252	1G	1	142,53

2027/2

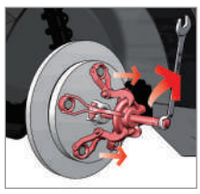
Extractor de tamburi

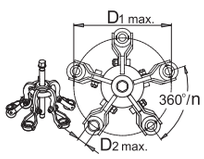
- *material ochiuri de agatare crom-molibden*
- *cu cinci brate*
- *pentru extragere tamburi pana la diametrul prezoanelor de 250 mm*
- *Scula este destinata demontarii diversilor tamburi.Este proiectata pentru o utilizare simpla si flexibila.Cu bratele ajustabile tamburii pot fi inlocuiti cu trei, patru sau cinci brate extractoare in functie de tipul tamburului. Utilizare extrem de flexibila datorata celor cinci brate detasabile, se preteaza la majoritatea tipurilor cu prezoane pe un cerc de pan ala 250 mm.Extractorul se compune din surub, cinci brate si placa de agatare.Placa de agatare este prevazuta cu caneluri pentru a preveni alunecarea bratelor in timpul actionarii.Fiabilitate inalta.Nu se recomanda actionarea acestuia cu pistole pneumatice*

Cum sa utilizați scula:

- *Ansamblati extractorul alegand numarul de brate adecvat*
- *Montati bratele pe tambur*
- *Rotiti surubul si incepeti demontarea tamburului*







UNIOR

	D1	D2		n				
619278	250	18.5	24	3 - 5	4640	1G	1	1183,48

1942/2

Extractor pentru bratul stergatorului de parbriz spate

- *material brate crom vanadiu*
- *pentru stergatoare spate*
- *livrat cu dorn*

Avantaje:

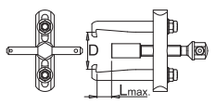
- *adaptor special pentru protectia axului*

Cum sa utilizați scula:

- *Scula este destinata schimbarii stergatoarelor spate si asigura o schimbare simpla a tuturor tipurilor de stergatoare spate. Adaptorul pentru schimbarea axului este protejat in timpul lucrului de o carcasa. Axul face posibila rotirea rapida a surubului, facand schimbarea rapid, pentru marirea forteii utilizati o cheie de 13 mm. Constructia cheii ii confera o indelungata fiabilitate.*
- *utilizat cu o chei de 13 mm*

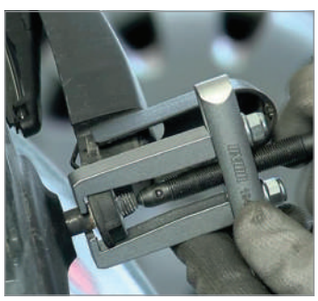






UNIOR

	L1	D				
619271	103	22 - 25	288	1G	1	337,60









UNIOR®
Automotive tools



Producator European din 1919



SCULE PENTRU SERVISAREA BICICLETELOR

Noua tehnologie avansata

Utilizarea unor noi metode tehnologice si a a materialelor de inalta calitate asigura scule cu o durata mare de exploatare, design sigur ce garanteaza efectuarea unor lucrari de reparare fara pericole. Solutiile personalizate, efocienta excelenta, materialele moderne si designul ergonomic ofera o imagine frumoasa si o utilizare sigura.

Solutii particularizate pentru rezultate excelente

Solutiile noastre ofera adaptabilitate pieselor de bicicleta apartinand tuturor producatorilor. Traditia noastra, propriul nostru design, dezvoltarea tehnica constanta precum si tehnologia moderna, ne mentin in frunte.

Durabilitate excelenta

Sculele manuale Unior finalizeaza multe lucrari si faciliteaza lucrul in zone inguste. Acestea sunt adaptate la lucrul pe cele mai noi modele de biciclete.

UNIOR

AX

1. Tratament termic (calire si revenire): tratamentul termic prin calire si revenire este destinat imbunatatirii structurii otelului, pentru a oferi o mai mare duritate, tenacitate si alte calitati necesare depasirii incarcarii datorate lucrului cu un astfel de produs.



2. Polizarea: confera axului aspectul profesional corespunzator precum si protectia de suprafata solicitata.



AC

3. Prelucrare cu ajutorul unei masini cu comanda numerica CNC: axul este realizat in intregime din material solid. O atentie deosebita este conferita filetului care asigura o miscare lina a arborelui in carcasa si astfel o functionalitate optima.



4. Tratament termic (calire si revenire): tratamentul termic prin calire si revenire este destinat imbunatatirii structurii otelului, pentru a oferi o mai mare duritate, tenacitate si alte calitati necesare depasirii incarcarii datorate lucrului cu un astfel de produs.



5. Sablarea: curatirea suprafetei inainte de polizare este importanta pentru asigurarea unei protectii durabile si de calitate a suprafetei.

6. Polizare: confera axului un aspect corespunzator, profesional, impreuna cu uleiul corespunzator asigura de asemenea si protectia de suprafata solicitata.

MANER



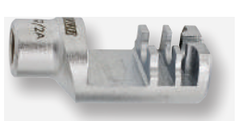
7. Frezarea portiunii drepte a manerului

8. Tratament termic (calire si revenire): tratamentul termic prin calire si revenire este destinat imbunatatirii structurii otelului, pentru a oferi o mai mare duritate, tenacitate si alte calitati necesare depasirii incarcarii datorate lucrului cu un astfel de produs.



9. Sablare: curatirea suprafetei inainte de polizare este importanta pentru asigurarea unei protectii durabile si de calitate a suprafetei.

10. Cromare: carcasa clichetului este placata cu un strat subtire, solid de oxid de crom, care protejeaza impotriva coroziunii si uzurii, precum si a altor deteriorari mecanice.



CARCASA

11. Prelucrarea cu ajutorul masinii cu comanda numerica CNC: carcasa este realizata in intregime din material solid. Se acorda o atentie deosebita centrarii si pozitionarii, ceea ce asigura functionalitatea optima a uneltei.



12. Tratamentul termic (calire si revenire): tratamentul termic prin calire si revenire este destinat imbunatatirii structurii otelului, pentru a imbunatatii duritatea si rezistenta produsului, precum si a altor proprietati necesare depasirii sarcinilor muncii cu astfel de produse.

13. Sablarea: curatarea suprafetei inainte de polizare este importanta pentru calitatea si protectia suprafetei.



14. Cromarea: carcasa este placata cu un strat subtire, solid de oxid de crom, care protejeaza impotriva uzurii si coroziunii, precum si a altor deteriorari mecanice. In acelasi timp confera intregului produs - uneltei Unior pentru montarea lantului - un aspect lucios si profesional.

ASAMBLARE

15., 16. 15, 16. Asamblarea finala: muncitorii instruiti, calificati si meticulosi efectueaza asamblarea finala a produsului intrun ansamblu solid, asigurand astfel functionarea si calitatea ridicata a extractorului Unior.





1608/2BI

Scula ansamblu ax pedala

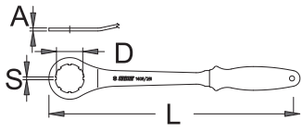
- *material: otel de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *maner ergonomic rezistent bimaterial*

Cum sa utilizati scula:

- *Aceasta scula este destinata pentru instalatii si inlocuirea partilor adanci ale piulitelor canelate XTR ® si Dura Ace si permit o munca usoara fara alunecare si avarierea componentelor.*







UNIOR

	L	A	S	D				
615534	350	4	3,8	37,3	296	4B	10	**76,59**

1609/2HOBBY

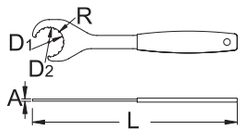
Cheie fixa pentru pedalier

- *Material: otel de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *scula este potrivita de asemenea pentru piulitele cu 16 crestaturi ale discului de frana*

Cum sa utilizati scula:

- *cheia fixa pentru pedalier este folosita pentru a monta sau demonta atat pedaliere Shimano, Hollowtech II, Campagnolo® Ultra-Torque and Power Torque, Race Face®, FSA®, SRAM®, Truvativ®, Chris King®, cat si alte modele.Cheia 1609/2HOBBY se potriveste de asemenea pentru piulita discului extern.*





UNIOR

	D1	D2	L	A	R				
623424	21,35	22,5	310	3	1,5	270	4B	1	**48,39**

1607/4

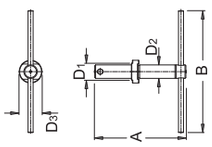
Scula de montat ax pedalier

- *material: otel*
- *acoperire prin brunare conform DIN 50938*

Cum sa utilizati scula:

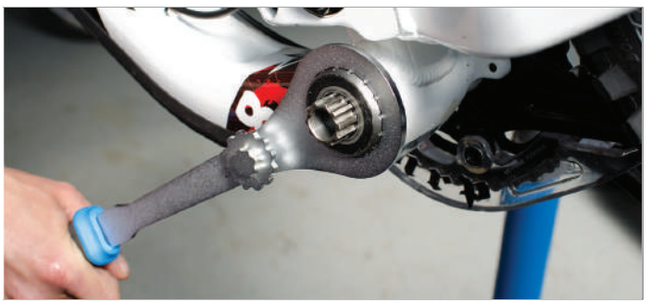
- *Scula este utilizata pentru montarea sau schimbarea carcasei axului pedala de 35, 8 si 36, 3 mm. Este confectionata din otel de calitate cu tratament termic si suprafata protejata. Avantajul sculei este acela ca preintampina patinarea carcasei*





UNIOR

	A	B	D1	D2	D3				
616293	220	290	36,5	32	54	1750	1F	1	**253,95**



1609/2BI

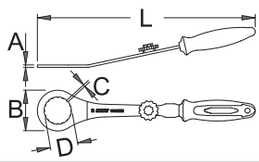
Scula ansamblu ax pedala

- *material: otel de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *maner ergonomic rezistent bimaterial*

Cum sa utilizati scula:

- *acesta cheie este destinata pentru inlocuirea si remontarea piulitelor canelate pentru Shimano ® XTR - FC - M960, XT FC-M 760, SAINT FC -M 800, RACE FACE ® X-TYPE, FSA ® MEGAE X, Truativ ® Giga X- Pipe fara alunecari sau deformari.Cheia are si o alta caracteristica, desfacerea pinului de plastic al piulitei canelate de la ax pedala.*





UNIOR

	L	A	B	D	C				
615536	350	4	66	42,7	2,8	316	4B	10	**113,11**

1609.1/2

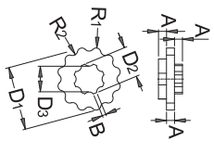
Cheie pentru boltul de plastic Shimano

- *magnetul puternic de pe spatele cheii ii permite sa fie asezat in locul dorit.*
- *scula poate di folosita manual sau folosind o cheie cu deschiderea de 13 mm*

Cum sa utilizati scula:

- *scula este destinata schimbarii si instalarii boltului de plastic pentru Shimano care este folosit in axul Hollowtech II*





UNIOR

	A	B	D1	D2	D3	R1	R1				
623120	4	1,85	32	15,4	13	2,3	2,5	33	1E	1	**57,94**

1607.1/4

Cap de schimb pentru 1607/4



UNIOR

623383	216	1E	1	**67,50**



1672/2

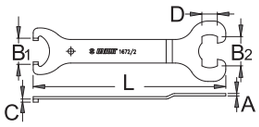
Scula pentru ghidarea lagarelor, pentru modelele mai vechi

- *material: otel de scule calit si revenit*

Cum sa utilizati scula:

- *scula este folosita pentru demontarea si montarea lagarelor la modelele mai vechi de biciclete. Cheia este perfect adaptata mainii pentru actionare in locuri stramte si locasuri mici asigurand o instalare usoara a ghidajelor pentru modelele mai vechi de biciclete. Lungimea cheii este de 204 mm.*





UNIOR

	L	B1	B2	A	C	D				
618414	204	27,3	31	2,5	3	16,5	113	4A	10	**36,68**

2620/2BI

Scula pentru set pedalier BSA30

- *are un maner profesional din plastic dublu injectat care confera o priza ferma si in acest fel un mare confort in utilizare*
- *cheia este folosita pentru montarea/demontarea cupelor externe BSA30*
- *cheia unior pentru setul pedalier BSA30 merge cu standardele BSA30 folosite pe sistemele Rotor, Zipp si RaceFace*



UNIOR

624037	275	4B	1	**62,56**

2621/2BI

Scula pentru set pedalier FSA MegaEVO

- *Cheia Unior pentru setul de pedalier MegaEvo corespunde standardelor MegaEvo folosite pe pedalierele FSA BB386EVO*
- *Are un maner profesional din plastic dublu injectat care confera o priza ferma si in acest fel un mare confort in utilizare*
- *Cheia serveste la montarea/demontarea cupelor externe FSA MegaEvo*



UNIOR

624039	300	4B	1	**62,56**



1626A

Setul complet Campagnolo Power si Ultra Torque de asemenea si pentru Fulcrum Ultra Torque

- *setul complet include brat si rulment de schimb si scula pentru montare pentru Campagnolo® si Fulcrum® Ultra Torque cranksets cat si pentru Campagnolo® Power Torque system*



UNIOR

623207	570	1E	1	**360,74**

1626.1A

Campagnolo set extractor rulmenti ax pedalier

Cum sa utilizati scula:

- *setul de scule 1226A se foloseste impreuna cu 1626/2 setul de demontare si montare a rulmentului Campagnolo Ultra Torque*



UNIOR

623086	100	1E	1	**85,22**

1671.2/4

Scula pentru ax pedalier

- *Material: otel de scule calit si revenit*
- *Pentru Shimano ®, XTR BB-950, Bontrager ®, si TruVativ ® (ISIS Drive ® tip)*



UNIOR

616069	211	4B	10	**82,13**

1671.1/4

Scula pentru ax pedalier

- *Material: otel de scule calit si revenit*
- *Pentru: ShimanoZ, ISIS*

Cum sa utilizati scula:

- *Folositi scula de pinioane impreuna cu antrenorul de 1/2" art.190.1A Bl.*



UNIOR

616068	112	4B	10	**82,29**

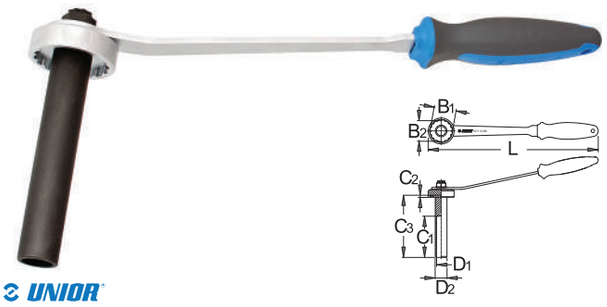
1671.5/2BI

Shimano hollowtech® scula pentru ax pedalier

- *material: otel de scule calit si revenit*

Cum sa utilizati scula:

- *dispozitivul se compune din cheie,surub, piulita si maner. Pentru utilizare montati cheie in piulita axului si insurubati surubul, prevenind alunecarea si deteriorarea axului cand se aplica presiunea de lucru. Munca este mai usoara cand se foloseste manerul de 350 mm lungime bi-material. Partea aditionala a surubului este 19 mm AF spre a fi folosita cu cheia de 19 mm AF si antrenor cu clichet pentru verificarea momentului de strangere. Cheia poate fi folosita si independent cu o cheie de 19 mm fara surub, cu piulita si maner*



	L	B1	B2	D1	D2	C1	C2	C3				
619713	348	42,7	46	18	23,8	90	5,5	128,5	780	1B	1	**300,65**

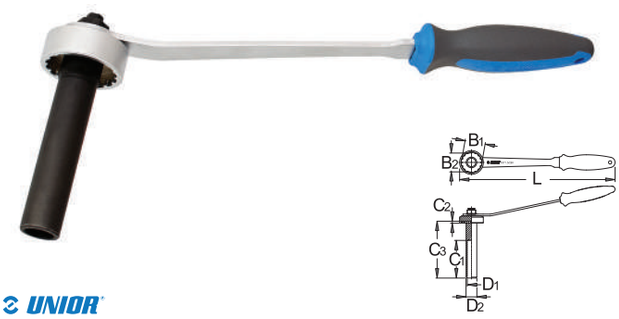
1671.6/2BI

Campagnolo® ultra-torque- scula pentru ax pedalier

- *Material: otel de scule calit si revenit*

Cum sa utilizati scula:

- *Dispozitivul se compune din cheie,surub, piulita si maner.Pentru utilizare montati cheie in piulita axului si insurubati surubul, prevenind alunecarea si deteriorarea axului cand se aplica presiunea de lucru.Munca este mai usoara cand se foloseste manerul de 350 mm lungime bi-material. Parte aditionala a surubului este 19 mm AF spre a fi folosita cu cheia de 19 mm si antrenor cu clichet pentru verificarea momentului de strangere. Cheia poate fi folosita si independent cu o cheie de 19 mm fara surub, cu piulita si maner*



	L	B1	B2	D1	D2	C1	C2	C3				
619714	348	42,7	46	18	24,5	90	10,5	117	770	4B	1	**316,06**





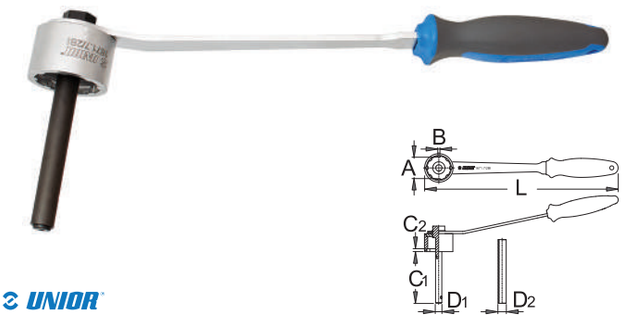
1671.7/2BI

Truvativ® scula pentru ax pedalier

- *material: otel de scule calit si revenit*

Cum sa utilizati scula:

- *Dispozitivul se compune din cheie,surub, piulita si maner.Pentru utilizare montati cheie in piulita axului si insurubati surubul, prevenind alunecarea si deteriorarea axului cand se aplica presiunea de lucru.Munca este mai usoara cand se foloseste manerul de 350 mm lungime bi-material. Parte aditionala a surubului este 19 mm AF spre a fi folosita cu cheia de 19 mm si antrenor cu clichet pentru verificarea momentului de strangere. Cheia poate fi folosita si independent cu o cheie de 19 mm fara surub, cu piulita si maner.Scula are un manson reglabil de 13.9 mm.*



	L	D1	D2	C1	C2	A	B				
620206	335	10,8	13,9	89	5	37,4	4,0	677	4B	1	**283,39**

1671.8/2BI

Scula pentru ax pedalier

- *Material: otel de scule calit si revenit*
- *maner ergonomic rezistent bimaterial*
- *Este formata din cheie art. 1671.1, surub cu piulita si maner*
- *Surubul cu doua filete permite utilizarea sculei atat pentru ax pedalier standard de Shimano cat si pentru ax pedalier de la Shimano Octalink si Truvativ*

Cum sa utilizati scula:

- *Acesta scula ne permite fixarea in cheia in ax cu un şurub suplimentar, care vine cu scula. Acest lucru previne alunecarea cheii si deteriorarea piulitei. Munca se face usor datorita manerului lung de 350 mm, din doua componente cu forma ergonomica. Acelasi procedeu poate fi folosit pentru instalare.Surubul este de 24 mm AF şi este actionat cu o cheie de 24 mm, pentru verificarea cuplului se utilizeaza o cheie dinamometria.Manerul poate fi detasat, daca este necesar.*

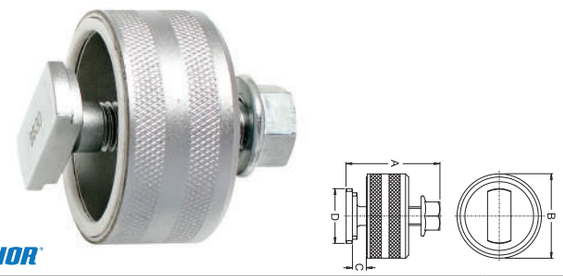


623087	490	4B	1	**216,35**

1625/2

Scula brat inferior pentru BB30

- *Aceasta scula este construita pentru a monta/demonta rulmentii bratelor inferioare nefiletati ai sistemelor de brate inferioare BB30. Scula va muta rulmentii din carcasa bratelor inferioare BB30*



	A	B	C	D					
621660	60	54	17	35	19	346	1C	1	**155,64**

1625/2BB90

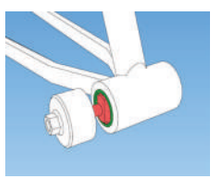
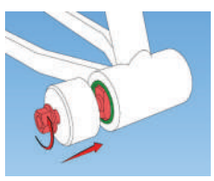
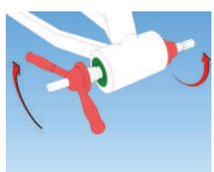
Scula pentru inlocuirea axului pedalier BB90

- *Scula este destinata inlocuirii axului pedalier nefiletat cu rulment si bucsa de la sistemul BB90.Suporta si alte sisteme de presare standard cu arbore de 24 mm cum ar fi BB86, BB92, SRAM Press Fit GXP.Scula va impinge afara rulmentul si bucsa din cadru.Se introduce cu atentie capul de ghidare al sculei prin bucsa axului pedalier (marcata cu verde)*



UNIOR

	A	B	C	D					
623085	60	54	9	29,75	19	283	1G	1	**204,18**

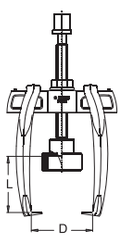
1626/2

Extractor de rulmenti si set de montare de la Campagnolo si Fulcrum Ultra Torque

- *Destinat si realizat pentru montarea si demontarea rulmentului de presiune uzat la Campagnolo® si Fulcrum® Ultra-Torque.*
- *Bratele forjate ale extractorului si marginile conice se strang sub rulment in timp ce sistemul pistonului scoate rulmentul.*

Cum sa utilizati scula:

- *Scula de instalare fixeaza cu precizie atat axul macaralei cat si rulmentul presat potrivit pentru a asigura instalarea exacta. Doar pozitionati rulmentul in locul potrivit folosind scula si un ciocan*

UNIOR

	L↧	D↧	D↥				
621661	75	40	75	500	1E	1	**288,93**



1610/2

Cheie de pedala

- *material:crom vanadiu*
- *acoperire cromare in conformitate cu EN12540*
- *tratament termic complet*

Cum sa utilizati scula:

- *Cheia pentru pedala este utilizata pentru o montare si o demontare simpla si eficienta a pedalei.Forma lunga si zvelta precum si designul deschiderii o fac perfect adaptata pentru pedala.Viteza si siguranta in insurubarea si desurubarea pedalei in comparatie cu o cheie traditionala asigurand un lucru confortabil fara deteriorari. Cheia de pedala este disponibila in trei dimensiuni diferite:15 x 15 pentru pedale, in timp ce 15 x 17 si 15 x 9/16" pentru butucul rotii.*





UNIOR

		L	A				
615011	15 x 15	340	22	269	4A	10	**45,00**
615012	15 x 17	340	24	261	4A	10	**45,00**
615127	15 x 9/16	340	22	269	4A	10	**45,00**



1613/2BI

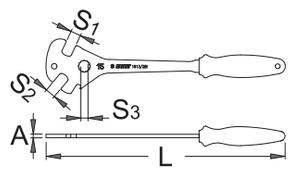
Cheie de pedala, profi

- *Material: otel de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *tratament termic complet*
- *maner ergonomic rezistent bimaterial*

Cum sa utilizati scula:

- *Cheia profesionala pentru pedala are trei deschideri de 15 mm orientate sub diferite unghiuri astfel incat utilizatorul poate realiza precizie si eficienta in inlocuirea pedalei indiferent de pozitia axului pedalei.Designul si acoperirea cheii dau durabilitate, forta si precizie in utilizare.Un maner lung permite o parghie pentru inlocuirea chiar si a pedalelor foarte compacte.De asemenea incorporat in aceasta cheie este un desfacator de sticla.*





UNIOR

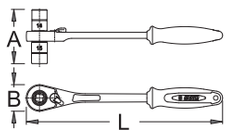
	S1	S2	S3	L	A				
615537	15	15	15	350	5	381	4B	10	**130,68**

1621/1BI

Antrenor pentru montarea piulitelor pedalier

- *material:compozitie speciala pentru calire revenire*
- *maner ergonomic rezistent bimaterial*
- *75 de dinti*
- *Capete chei tubulare interschimbabile:14 mm si 15 mm*
- *Antrenorul pentru piulite este destinat pentru reglarea si slabirea piulitelor de 14 mm si 15 mm. Este folosit in mod particular pentru montarea si demontarea butucilor. Forma acestuia previne caderea capului cheie tubulara*
- *Forma antrenorului pentru piulite pedala asigura lucrul in locuri dificile si imbunatateste accesibilitatea la butuci. Noua forma asigura un moment marit, reduce efortul fizic si asigura o viata indelungata sculei. Momentul maxim este asigurat de forma manerului. O asezare perfecta in mana il face confortabil in timpul lucrului.*





UNIOR

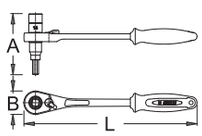
		L	A	B				
615248	14 x 15	260	71	35	380	4B	1	242,70

1621/1ABI

Antrenor pentru montarea piulitelor pedalier cu cap tubular 14 mm si cap locas hexagonal 8 mm

- *material:compozitie speciala pentru calire revenire*
- *75 de dinti*
- *maner ergonomic rezistent bimaterial*
- *Capete interschimbabile hehagon 8 mm si cap cheie tubulare de 14 mm.Este utilizat in mod special pentru montarea si demontarea pedalierului.*





UNIOR

			L	A	B				
616288	14	8	260	91	35	381	4B	1	243,32

1661/4

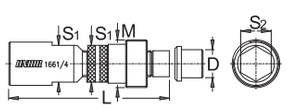
Extractor ax pedala

- *Material: otel de scule calit si revenit*
- *tratament termic complet*
- *Acoperire prin brunare*

Cum sa utilizati scula:

- *Scula este destinata pentru inlocuirea pinioanelor de lant si piulitelor de 14 mm.Scula este destinata pentru inlocuirea pinioanelor de lant .Cu adaptor suplimentar al sculei pentru alt standard ca ISIS si Octalink acestea pot fi inlocuite la fel de bine.*





UNIOR

	S1	S2	M	L	D				
615529	16,9	14	22 x 1	74,5	13	139	4A	1	105,71





1664

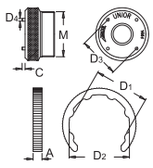
XTR Extractor

- *Material: otel de scule calit si revenit*

Cum sa utilizati scula:

- *Extractorul XTR este utilizat pentru inlocuirea arborelui XTR.Pentru utilizare scoateti inelul de plastic de pe partea exterioara a extractorului folosind cei patru pini de pe partea stanga a extractorului.Desurubati piulita interioara cu piulita de plastic. Insurubati extractorul cu partea lui dreapta si folositi o cheie locas hexagonal pentru desurubarea piulitei de ficare a axului.Insurubati extractorul, inserati-l cu partea cilindrica in piulita axului pana la decuplarea de pe ax.Scula are mare eficacitate si este recomandata profesionistilor si pasionatilor de biciclete.*





UNIOR

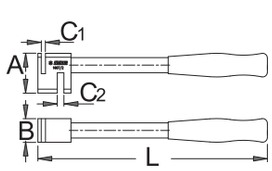
	D1	D2	D3	D4	A	M	C				
619710	37	40	26,9	1,8	5,9	M 30 x 1	2	84	1E	1	104,94

1667/2

Scula de ajustat foaia de lant pedalier

- *Material: otel de scule calit si revenit*
- *Scula este destinata repararii si ajustarii micilor deformari ale foii de lant pedalier. Deschiderile inguste deformate ale dintilor, precum si indreptarea foii de lant.*





UNIOR

	L	A	B	C1	C2				
619704	243	42	25	4,5	7	542	4A	1	136,53



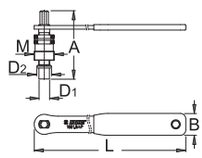


1661.3/4P

Extractor cu maner folosit pentru Standard, Shimano Octalink si Isis

- *Extractorul este folosit pentru inlocuirea pedalelor la Shimano Octalink si ISIS cat si pentru pedalele cu prindere patrata. Un maner robust asigura folosirea usoara si rapida a acestuia. Produsul este extrem de eficient si poate fi folosit atat de pasionati cat si de profesionisti.*





UNIOR

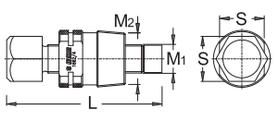
	D1	D2	M	A	B	L				
623088	11,5	16	M22 x 1	75	24	165	215	4B	1	**97,70**

1662/4

Extractor filetat

- *Material: otel de scule calit si revenit*
- *Extractorul filetat este utilizat pentru schimbarea arborelui pedalier cu deformarea filetului interior cand acesta nu poate fi schimbat cu un extractor normal*





UNIOR

	M1	M2	S				
619707	12 x 1	22 x 1	19	126	4A	1	**70,11**

1668/2

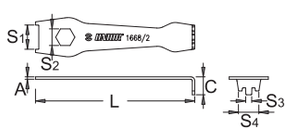
Cheie pentru piulitele frontale ale pinionului de lant

- *Material: otel de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Dimensiunea cheii locas hexagonal are deschiderea de SW10.Este utilizata pentru insurubarea si desurubarea piulitelor de aceasta dimensiune, in acelasi timp poate fi folosita la agatarea cheii*

Cum sa utilizati scula:

- *Cheia este utilizata pentru desurubarea si strangere piulitelor de la pinionul de lant. Strangerea incepe cu partea larga a cheii, iar cand piulita este suficient de stransa se finalizeaza cu partea stramta care este indoita pentru a realiza o mai mare forta la finalizarea strangerii.La desurubarea piulitei cheia este folosita in ordine inversa.*





UNIOR

	S1	S2	S3	S4	L	A	C				
618415	14,8	10,2	3,6	12,5	98	1,5	11	18	4A	10	**14,18**

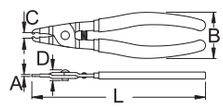


1720/2DP

Cleste cu lant Master LINK

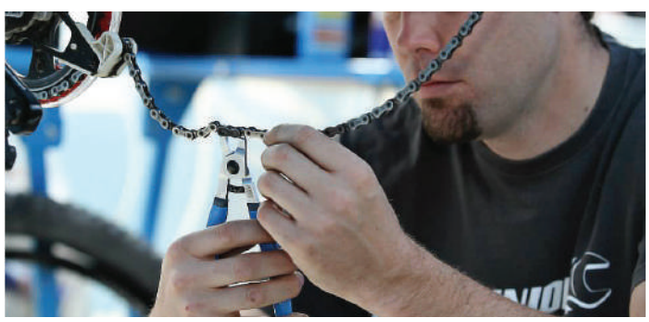
- *Material: otel*
- *finisare:cromat in conformitate cu standardul EN12540*
- *Scula poate fi folosita in egala masura de mecanicii profesionisti si de cei amatori*
- *Clestii de lanturi Master Link sunt pentru cei care au lanturiMaster Link dotate cu un sistem de prindere sau dezasamblare rapida manuala. Dupa folosirea lantului, noroiul si rugina fac imposibila desfacerea lantului cu mana. In aceste cazuri se folosesc clestii UNIOR 1720/2DP Maste LINK*





UNIOR

	L	B	D	A	C				
623296	177	45	11	2	21	86	4B	1	**96,62**



1647HOBBY/4P

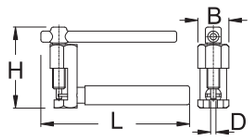
Dispozitiv pentru demontat lant

- *Merge pentru toate lanturile intre 5-11 viteze*
- *Manerul este acoperit cu plastic si permite o utilizare usoara.*

Cum sa utilizati scula:

- *Scula de insurubat cu lant este gandita penru utilizatorii casnici. O simpla strangere este suficienta. Designul ergonomic face scula precisa si usor de folosit*





UNIOR

	D	B	L	H				
623728	3,4	19,6	92	51	120	4A	1	**61,18**

1647/2ABI

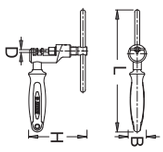
Dispozitiv pentru de montare/demontare lant

- *material: otel de scule calit si revenit*
- *maner ergonomic rezistent bimaterial*
- *pentru Compagnolo, compatibila cu 11 viteze*

Cum sa utilizati scula:

- *Dispozitivul este destinat atat profesionistilor cat si utilizatorilor amatori.Simpla reglare a axului pozitioneaza perfect boltul.Cu o forma ergonomica este usor de folosit si asigura o mare precizie.*



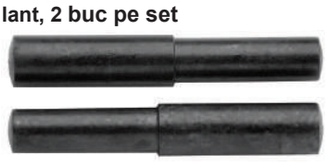


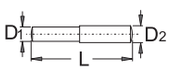
UNIOR

	D	B	L	H				
621662	3,4	22	150	72	175	4B	1	**164,42**

1647.1/4A

Bolt de schimb pentru scula pentru montare demontare lant, 2 buc pe set





	D1	D2	L					
621734	3,4	4	24	2	10	1E	1	**8,01**

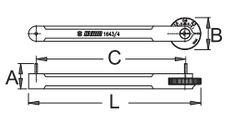
1643/4

Verificator de profil lant

Cum sa utilizati scula:

- *Pentru a usura cuplarea trenului de schimbare pinioane, majoritatea producatorilor recomanda inlocuirea lantului la sau inainte de 1 % alungire.Acum puteti simplu si precis sa determinati starea si alungirea oricarui lant.In mod simplu introduceti Verificatorul de bolt intre doua zale, apasati bratul de intindere si etalonare dupa care verificati pe fereastra de etalonare pentru acuratetea masuratorii.*





UNIOR

		L	B	A	C				
617170	0 - 1,2	137	25,5	20	137	168	1C	1	**106,33**







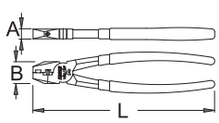


1640/1DP

Cleste de lant

- *material: otel de scule calit si revenit*
- *tratat complet*
- *acoperire cromare in conformitate cu EN12540*
- *capetele clestelui tratate prin inductie*
- *manere din doua straturi de plastic*
- *clestele pentru montare demontare lant a fost dezvoltat pentru a asigura atat reparatii profesionale in service-uri sau acasa a lantului.Functionalitatea, eficienta si usurinta sunt avantajele clestelui pentru lant.Cu forma sa unica se asigura mai putin efort pentru extragerea bolturilor de pe lant.Munca va fi eficienta si confortabila fara a deteriora bolturile.Forma ergonomica asigura folosirea cu o singura mana.*





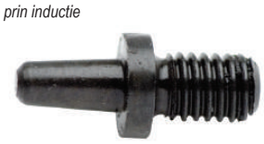
UNIOR

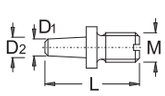
	L	B	A				
615377	243	29	13	426	4B	10	**186,92**

1640.1/4

Inlocuirea boltului pentru clestele de lant

- *material: otel de scule calit si revenit*
- *acoperire prin brunare conform DIN 50938*
- *capetele clestelui tratate prin inductie*





UNIOR

	D1	D2	M	L				
605956	2,8	3,8	M 5	16	7	1E	2	**11,56**

1644/2

Indicator de uzura lant

- *executat prin taiere cu laser, de precizie a otelului*

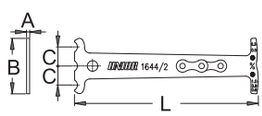
Cum sa utilizati scula:

- *un lant uzat si pinion de lant uzat rapid.Scula este "trece" "nu trece" verificator destinat unei masuratori de acuratete cand lantul este uzat.*

Important

- *masuratori:de la 0 la 0, 6 mm - lant fara uzura.De la 0, 7 la 1, 2 mm lantul este uzat si este necesara inlocuirea lui.*





UNIOR

	L	A	B	C				
617171	122,5	2	37	12,7	40	4A	1	**38,99**



1659/2

Scula de inlocuit pinioane 1/8"

- *Material: otel de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Scula este destinata schimbarii pinionelor .Lantul se aseaza corect de dintii pinionului si asigura o antrenare lina fara alunecari sau deteriorari a pinionului.Arcul de retragere cu care este prevazuta scula o fac deosebita de produsele similare cu aceiasi destinatie.*



UNIOR

	L	C				
619589	350	1/2" x 1/8"	357	1E	10	**111,41**

1667/2

Scula de ajustat foaia de lant pedalier

- *Material: otel de scule calit si revenit*
- *Scula este destinata reparatii si ajustarii micilor deformari ale foii de lant pedalier. Deschiderile inguste deformate ale dintilor, precum si indreptarea foii de lant.*



UNIOR

	L	A	B	C1	C2				
619704	243	42	25	4,5	7	542	4A	1	**136,53**



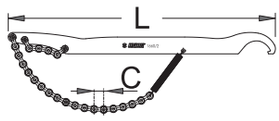
1660/2

Scula pentru pinioane

- *Material: otel de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Cheia pentru pinioane este destinata pentru toate tipurile de pinioane cu lant inclusiv cele tip caseta. Lucreaza cu eficienta si precizie fara alunecare si deteriorarea pinionului. Adaugand un arc de retragere este o scula comparabila cu produsele similare.*







UNIOR

	L	C				
615528	350	1/2" x 3/32"	361	1E	10	**113,88**



1658/2P

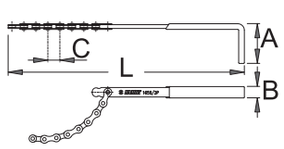
Indicator de pozitionare lant pe pinion

- *Material: otel de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *pentru HG si IG roti de lant*

Cum sa utilizati scula:

- *Scula este utilizata pentru determinarea pozitionarii lantului pe pinioane.Poate fi utilizata pentru pinioane de la 12 la 21 de dinti.Mod de utilizare:lantul este montat pe pinion si scula pozitionata cu partea din spate rotunda intre doi dinti pe partea de sus a pinionului.Ultima za a lantului este miscata pe pinion si o forta de 100 N sau 10 Kg este aplicata pe scula in directia de rotire a lantului.In acest moment ultima za a lantului este miscata pe pinionul de lant.Daca zaua calca corect pe dintele roatii de lant inseamna ca roata de lant este in buna stare si va functiona bine si cu un lant nou. Totusi, daca lantul calca gresit pe dinte roata de lant este defecta si trbuie schimbata. De asemenea cand lantul sare de pe roata repetat este nevoie de a inlocui roata de lant.*





UNIOR

	L	B	A	C			
619717	250	12	42	1/2"	86	4A	10	**80,90**



1670/2BI

Cheie demontare bloc pinioane

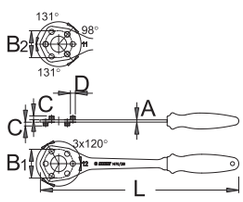
- *Material: otel de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *maner ergonomic rezistent bimaterial*
- *Codul 622881 este folosit pentru roata libera cu 13 si 14 dinti*

11x
12x

Cum sa utilizati scula:

- *Schimbatorul de pinioane este folosit pentru toate tipurile de pinioane de lant incluzand si cele tip casete.Este util pentru pinioane cu 11 si 12 dinti.*





UNIOR

	L	D	A	C	B1	B2				
617235	350	8,6	4	6,4	49,8	46	238	4B	5	**163,34**
622881	350	8,6	4	6,4	53,1	57,7	238	4B	5	**163,34**

1670.1/4

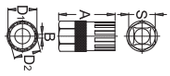
Cap pentru inlucuire pinioane Shimano

- *Pentru: Shimano Z, SRAM Z si Sachs Aris Z, Sun Race Z*

Cum sa utilizati scula:

- *Folositi scula de pinioane impreuna cu antrenorul de 1/2" art.190.1A BI.*





UNIOR

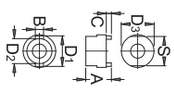
	A	B	D1	D2	S				
616062	44,7	3,0	22,72	21,24	21	57	4B	10	**46,54**

1670.2/4

Cap pentru inlucuire pinioane Suntour

- *Pentru: Suntour Z*





UNIOR

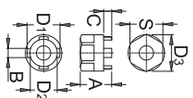
	A	B	C	D1	D2	D3	S				
616063	19,9	6,5	3,9	23,9	19,6	25,5	23	37	4B	10	**28,05**

1670.3/4

Cap pentru inlucuire pinioane Suntour

- *Pentru: Suntour Z*





UNIOR

	A	B	C	D1	D2	D3	S				
616064	23	6,8	5,4	23,9	19,9	26,7	24	42	4B	10	**28,82**

1670.4/4

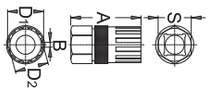
Schimbarea cuplajului torpedou Compagnolo®

- *Scula de scoatere a cuplajului liber torpedou este folosita pentru schimbarea ansamblului la modelul Campagnolo® freewheels.*

Cum sa utilizati scula:

- *Folositi scula de pinioane impreuna cu antrenorul de 1/2" art.190.1A BI.*





UNIOR

	A	B	D1	D2	S				
616707	44,2	3,0	22,63	21,35	21	54	4B	10	**55,01**

1670.5/4

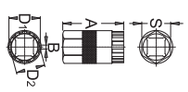
Cap pentru inlucuire pinioane Shimano

- *ShimanoZ, SRAMZ, Sun TourZ, Chris KingZ si Sun RaceZ si altele.*

Cum sa utilizati scula:

- *Folositi scula de pinioane impreuna cu antrenorul de 1/2" art.190.1A BI.*





UNIOR

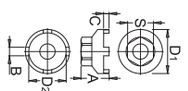
	A	B	D1	D2	S				
616065	45,4	2,1	23,40	21,20	21	66	4B	10	**42,69**

1670.6/4

Cap pentru inlucuire pinioane pentru BMX

- *Scula pentru BMX*





UNIOR

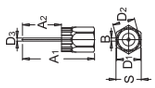
	A	B	C	D1	D2	S				
616066	25,4	7,8	5,0	40,9	35	24	84	4B	10	**51,16**

1670.7/4

Cap pentru inlucuire pinioane cu ghidaj cu bolt

- *Schimbator de pinioane cu ax de ghidare pentru ShimanoZ, SRAMZ Sun RaceZ, SuntourZ si altele.*





UNIOR

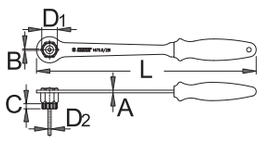
	A1	A2	B	D1	D2	D3	S				
616067	69,1	37,5	2,3	23,40	21,25	3,0	24	85	1E	10	**50,70**

1670.8/2BI

Cheie pentru pinioane roata spate cu maner

- *Cheia este utilizata pentru Simano®SRAM®Sun Race®Suntour® si alte casete de pinioane, ca si cheia nr.1670.7*





UNIOR

	L	B	A	C	D1	D2				
617908	337	1,5	4	7,9	23,6	5,0	340	4B	1	**122,20**





1669/4

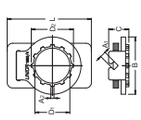
Cheie de buzunar pentru spite si cheie de schimbat torpedou

- *Material: otel de scule calit si revenit*
- *Acoperire prin brunare conform DIN 50938*
- *Cheia ete scula de baza pentru ciclisti*

Cum sa utilizati scula:

- *Schimbarea niplurilor rupte pe partea dreapta a rotii din spate, piulitele se vor inlocui primele.*
- *Mai intai se demonteaza roata spate, apoi se fixeaza scula in locasul de piulita din roata.*
- *Am instalat la loc roata din spate, astfel incat marginea patrata a sculei preseaza pe cadru sau suport. Dupa aceea, se rotesc pedalele in directia inainte si slabiti piulita rotii libere. Putem scoate caseta si inlocuiti spitele rupte. In scopul de a preveni posibilitatea ca vopseaua de pe cadrul bicicletei sa fie deteriorata, o farfurie de plastic de protectie ar trebui sa fie introdusa intre cheie şi cadru.*





UNIOR

	L	B	D1	D2	A1	A2	C				
616758	47	32	19,5	23,6	3,4	1,8	12	20	1E	10	**25,89**

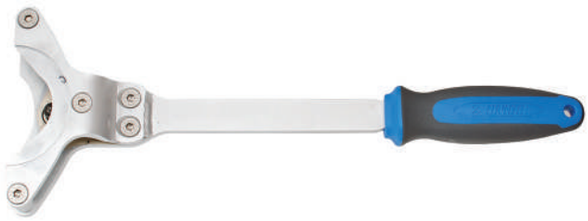
1722/2BI

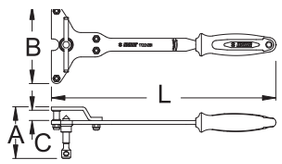
Scula universala pentru demontarea pinioanelor cu butuc filetat

- *Inlocuirea pinioanelor pe un ax filetat poate lua mult timp. Articolul 1722/2BI este o unealta unica pentru a demonta diversele pinioane standard cu butuc filetat.*

Cum sa utilizati scula:

- *Cu Unior 1722/2BI puteti prinde ferm intregul ansamblu pinion din doua parti, invarti fusul si fixa ferm. Fusul si bucsele laterale de pe unealta creeaza o prindere puternica. Invartind scula in sens invers acelor de ceasornic, puteti desuruba pinionul*





UNIOR

	L	A	B	C				
623473	350	88	121	16	760	4B	1	**289,86**

1614/4BI

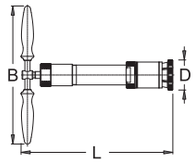
Extractor universal

- *Material: otel de scule calit si revenit*
- *Acoperire prin brunare conform DIN 50938*

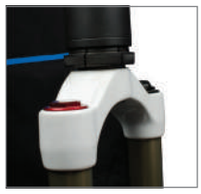
Cum sa utilizati scula:

- *Extractorul este un dispozitiv pentru inlocuirea rapida si precisa a bucsii de fixare a ghidonului pentru 1",1 1/8",1 1/2".Pentru utilizarea acestuia montati extractorul in capatul furcii si retiti manerul de actionare,veti reusi schimbarea bucsii filetate fara a utiliza ciocanul.Este utilizat atat de profesionisti cat si de pasionatii de biciclete.*





UNIOR







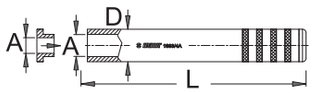
	D	D	D	L	B				
620195	1"	1.1/8"	1.1/2"	351	320	3510	1F	1	**1334,65**

1683/4A

Set bucsi ghidare ghidon

- *Material: otel*
- *Acoperire prin brunare conform DIN 50938*
- *Dimensiuni: 1", 1.1/4"; 1.1/8" ca elemente separate si 1.1/2" dimensiunea tevii.*
- *Acesta scula este destinata pentru montarea ghidonului in cadrul bicicletei pentru tevi de 1", 1.1 / 4", 1.1 / 8", 1,1 / 2 ",diametrele introduse sunt interschimbabile.. Acest instrument permite o munca rapida şi eficienta .*





UNIOR

	A	A	A	A	L	D				
620255	1"	1.1/8"	1.1/4"	1.1/2"	319	46	2500	1F	1	**245,94**

1616/4

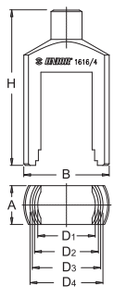
Dispozitiv pentru inlocuire cap furca

- *Material: otel*
- *Acoperire prin brunare conform DIN 50938*

Cum sa utilizati scula:

- *Aceasta scula este utilizata pentru inlocuirea capului de furca a diferitelor modele mai vechi de biciclete.Pentru inlocuirea carcasei rulmentului loviti in scula cu ciocanul.*





UNIOR

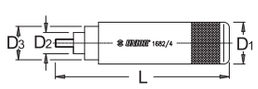
	A	B	H	D1	D2	D3	D4				
615527	25	55	100	37	41	44	47	422	1E	1	**254,26**

1682/4

Dispozitiv de montat ax ghidon

- *Material: Otel Carbon*
- *Acoperire prin brunare conform DIN 50938*
- *Setul de filetare piulita este utilizat pentru montarea capului de prindere furca pentru 1" si 1 1/4" .Este utilizat atat de profesionist cat si de amatori.*





UNIOR







	L	D1	D2	D3				
616292	124	29,5	15,2	24	557	1E	1	**72,73**

1681/4

Extractor pentru locas furca

- *Material: otel*
- *Acoperire prin brunare conform DIN 50938*
- *Extractorul de cap cadru este utilizat la inlocuirea capetelor uzate 1", 1 1/8" si 1 1/4" din cadru in mod usor.*





UNIOR

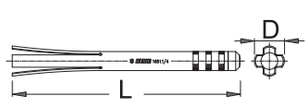
				L	D				
616291	1"	1.1/8"	1.1/4"	300	40	327	1E	1	**99,09**

1681.1/4

Extractor pentru locas furca

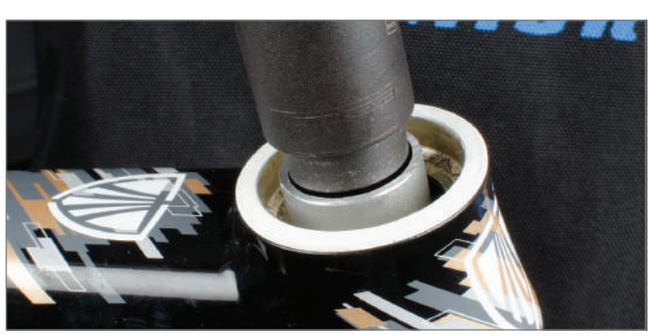
- *Material: otel*
- *Acoperire prin brunare conform DIN 50938*
- *Scula face posibila schimbarea partilor uzate din ghidon 1 1/4" si 1 1/2" din ghidon in mod usor.*





UNIOR

			L	D				
619705	1.1/4"	1.1/2"	300	56	326	1E	1	**97,70**

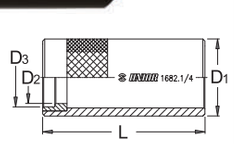


1682.1/4

Bucsa de ghidare

- *Material: Otel Carbon*
- *acoperire prin brunare*
- *Bucsa de ghidare este destinata ghidarii in cazul montarii piulitelor de ghidare de 1" la 1/8"Este destinata atat profesionistilor cat si pasionatilor de biciclete.*





UNIOR

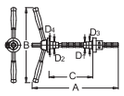
	L	D1	D2	D3				
619618	80	38	25,7	28,9	286	1E	1	**53,93**

1680/4

Scula de presat rulment

- *Material: Otel Carbon*
- *Aceasta scula de acuratete preseaza coaxial bucsile de capat pentru 1" 1 1/8", 1 1/4 si 1 1/2" in capatul cadrului de furca.Aditional exista un surub mai lung pentru furcile de BMX cu teava mai groasa.Aceasta scula precisa permite lucrul fara deteriorari ale componentelor.*





UNIOR







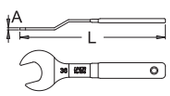
	D1	D2	D3	D4	CT	A	B				
616290	1"	1.1/8"	1.1/4"	1.1/2"	320	410	340	2730	1G	1	**496,04**

1618/2DP

Cheie simpla indoita pentru roata

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Manere din doua straturi de plastic*
- *Designul sculei asigura lucrul in locuri dificile.Forma unica a cheii este destinata pentru demontarea si montarea piulitelor de la ghidonul modelului Sun Tour.Este folosit impreuna cu cheia simpla art.1617.Noul design asigura un moment de torsiune mai mare si reducerea efortului fizic.*





UNIOR

		L	A				
615372	36	270	4	275	4A	10	**43,15**





1692/4

Scula pentru alinierea cadrului si furcii

- *Material: Otel Carbon de scule calit si revenit*
- *Acoperire prin brunare conform DIN 50938*

Cum sa utilizati scula:

- *Pentru folosirea scule demontati roata si introduceti scula in cadru.Scula este utilizata pentru centrarea furcii spate si obtinerea paralelismului.*



UNIOR





	D	B	L				
618412	30	84	309,5	1222	1F	1	**322,53**

1602/2

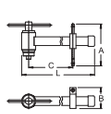
Dispozitiv de control si aliniere mecanism de schimbare viteze

- *material: otel special de scule,corpul din otel carbon*
- *Dispozitivul de reglare transmisie montat dea lungul furcii si filetat pe aceasta, trebuie sa fie paralel cu angrenajul rotii spate, aceasta fiind baza pentru functionarea corecta a lantului si pentru o rapida si eficienta cuplare. Daca bicicleta cade pe partea dreapta, defectiunea este la schimbatorul spate şi reprezinta o deformare a schimbatorului . Atunci cand se efectueaza lucrari de reparaţii, in primul rand roata din spate trebuie sa fie centrata, deoarece roata din spate da alinierea de baza pentru ajustarea dispozitivului schimbatorului. Instrumentul este uşor de utilizat şi foarte precis. Acesta este folosit pentru a verifica paralelismul dintre parghia schimbatorul şi roata, şi pentru a alinia parghia, daca paralelismul nu este atins.*
- *In cazul caderilor bicicletei pe partea dreapta se deterioreaza roata spate si se deformeaza furca spate.Aceasta este cauza pierderii paralelismului intre cele doua si functionarea incorecta a transmisiei cu lant.*
- *Cand se incepe interventia in primul rand se centraza roata spate deoarece ea este baza in reglarea paralelismului intre roata si furca.*
- *Scula este foarte precisa si usor de utilizat.Este utilizata pentru verificarea paralelismului intre furca piniomului de antrenare si roata si de a regla paralelismul in caz de dereglare*

Cum sa utilizati scula:

- *Cum se utilizeaza dispozitivul:montati dispozitivul pe furca spate.Deplasati palpatorul dea lungul gentii si pozitionati-l in asa fel incat acesta sa atinga usor geanta.Dupa aceasta fixati-l ferm prin infiletarea acestuia in capatul axului spate. Executati verificarea prin deplasarea usoara a dispozitivului in diferite pozitii de lungul jentii rotii spate.Daca dispozitivul este paralel cu roata, palpatorul din capatul diapozitivului va atinge usor geanta in toate pozitiile.In caz contrar se va regla ansamblul pana la obtinerea paralelismului.*





UNIOR

	L	A	B	CT				
617587	430	150	48	392	1058	1G	1	**307,27**

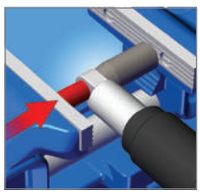
1701/5

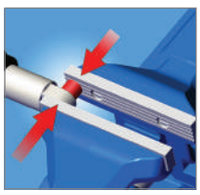
Set extractor bucsa

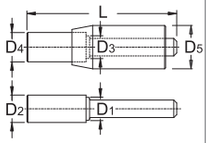
- *Scula este folosita pentru inlocuirea bucsilor vechi din amortizoare*
- *prin folosirea acestei scule si a unei menghine, inlocuirea bucsii este extrem de usoara.*
- *Extractor bucsa suspensie*



UNIOR







		D1	D2	D3	D4	D5	L				
623006	12 - 12,7	11,8	13,9	12,5	14,9	22	76	310	1G	1	**107,56**

1702

Scula de montare a furcii ghidonului

- *Scula este destinata instalarii furcii ghidonului in partea din fata a furcii cu suspensia. Avand la baza cota de etansare,versiunile corespunzatoare ale sculei pentru dimensiunile - 32mm, 34mm, 35mm/36mm or 40mm.Scula este confectionata din plastic dur care nu deterioreaza carcasa furcii.*



UNIOR



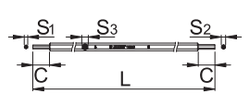


623024	32	84	1E	1	**50,39**
623025	34	92	1E	1	**50,39**
623026	35/36	100	1E	1	**58,56**
623027	40	123	1E	1	**58,56**

1703/2

Cheie hexagonala pentru furci Suntour si RST





UNIOR

	S1	S2	S3	L	C				
623259	5	6	10	350	25	211	E	1	**55,01**

1696

Scula de filetat furca

- *Material: otel aliat*
- *maner ergonomic rezistent bimaterial*

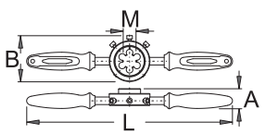
Cum sa utilizati scula:

- *Scula pentru filetat axul furcii este destinata retusarea filetului existent si inlaturarea prafului si vopselei ramasa pe filet.Confectionata dintr-un otel de calitate are o durata lunga de exploatare.Set de scule pentru axul furcii sub un unghi de 90°.Cand se utilizeaza filetarea folositi vaselina speciala pentru filetare.Manerul cu o forma ergonomica asigura transmiterea unei forte optime si un lucru eficient.*



UNIOR





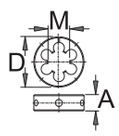
	M	L	A	B				
616074	1" x 24 tpi	370	31	84	1100	1F	1	**889,15**
619633	1.1/8" x 26 tpi	370	31	84	1130	1F	1	**872,20**

1696.1

Filiera

- *Material: otel aliat*
- *a se folosi cu scula art 1696*





UNIOR

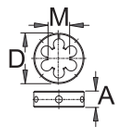
	M	D	A				
616075	1" x 24 tpi	55	15	162	1E	1	**615,01**

1696.2

Filiera

- *Material: otel aliat*
- *a se folosi cu scula art 1696*





UNIOR

	M	D	A				
617898	1.1/8" x 26 tpi	55	16	155	1E	1	**615,01**

1721

Kit presa de rulmenti universali

- *Setul de presare rulmenti universal UNIOR 1721 permite instalarea rulmentilor pe majoritatea cadrelor si componentelor.*
- *Setul include un arbore cu doua mansoane filetate, adaptoare pentru urmatorii rulmenti standard : 608, 1526, 6000, 6001, 6802, 6803, 6804, 6805, 6900, 6901, 6902, 6903, R6, 28x17 (Hope), BB30, conform cu normele de fixare prin presare si doua ghidaje din plastic concepute pentru protejarea suprafetelor de carbon in timpul instalarii rulmentului.*
- *Unul dintre manerele cu filet include un sistem rapid de desfacere.*
- *Toate elementele sunt aranjate intr-un modul de spuma SOS cu doua straturi in interiorul unei cutii de plastic compacta.*



UNIOR

623301	1G	1	1147,88

1604/2PLUS

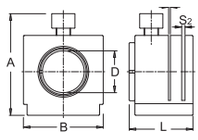
Ghidaj de debitare furca, pentru folosire profesionala

- *Material: otel aliat*
- *Pentru dimensiunile 1", 1.1/4", 1.1/8", 1.1/2"*
- *1604/2 PLUS permite montarea instrumentului de masura 1604.1 PLUS, care permite determinarea rapida si cu precizie lungimea tubului furcii dupa taiere*

Cum sa utilizati scula:

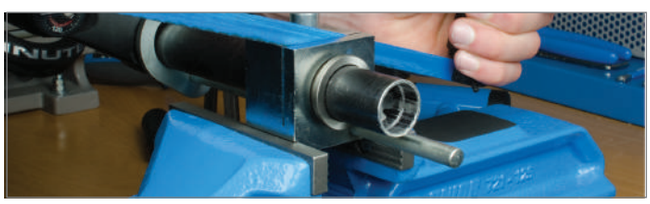
- *Cand tubul de ghidare sau o furca noua sunt mai lungi decat necesar, acestea trebuiesc scurtate la lungimea corecta. Ghidajul de taiere asigura o taiere egala si precisa pentru tuburile cu dimensiuni de 1", 1.1/4", 1.1/8", 1.1/2". Prindeti tubul furcii in ghidajul de taiere, pozitionand precis locul de taiere la nivelul fantei ghidajului de taiere. Strangeti menghina, fara sa fortati. Fixati ansamblul ghidajului de taiere/ furca in pe bancul de lucru.Taiati tubul cu un fierastrau prin fanta ghidului de taiere. Daca instalarea piesei de taiat a fost facuta facuta precis si strans, nu va fi nici o urma vizibila pe tubul furcii*





UNIOR

	D1	D2	D3	D4	S1	S2	A	B	L				
623417	1"	1.1/8"	1.1/4"	1.1/2"	1,5	2,5	60	60	38	918	1F	1	485,41

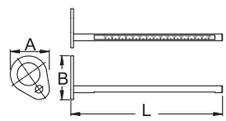


1604.1/2PLUS

Instrument de masura pentru ghidajul de taiere

- *1604.1/2 PLUS se monteaza pe ghidajul de taiere 1604/2 PLUS si permite determinarea rapida si cu precizie lungimea tubului furcii dorit dupa taiere.*





UNIOR

	A	B	L				
623418	57	64	220	174	1V	1	35,75

1639/2

Menghina de ax

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*

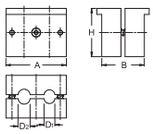
Cum sa utilizati scula:

- *Menghina permite utilizarea pentru doua diametre de 9 mm si 10 mm pentru introducerea axului fata si spate.Menghina este usor de utilizat.Doua arcuru interioare deschis falcile automat cand axul a fost schimbat.*

UNIOR





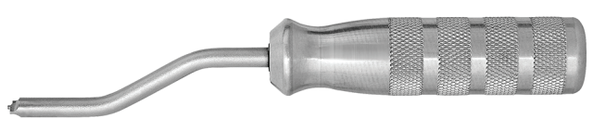


	D1	D2	A	B	H				
619715	9	10	50	35,5	40	488	1F	1	134,68

1751/2

Surubelnita pentru nipluri de spite

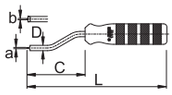
- *O scula de montaj roti indispensabila. Manerul rotitor si forma de ghidaj permit insurubarea rapida a niplurilor pe spita. Se foloseste pentru nipluri de forma standard*



UNIOR





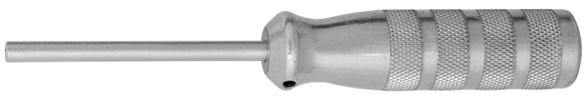


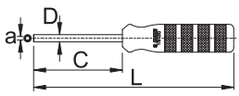
	a	b	C	D	L				
623297	1,2	1,3	71	6,5	171	160	4A	1	100,16

1751/2Q

Surubelnita tubulara pentru nipluri de spita patrate

- *UNIOR 1751/2Q este folosit atata pentru nipluri normale sau inversate cu cap patrat de 3.2mm. Corpul lung de 90mm permite lucrul atat la jante aerodinamice cu profil inalt, cat si la asamblarea jantelor normale. Manerul metalic de tip profesional ofera o priza perfecta.*





UNIOR

	a	C	D	L				
623298	3,35 x 3,35	80	6,5	180	150	4A	1	**90,30**

1754

Kit universal de montaj de roti

- *Articolul Unior 1754 este un set complet de scule universale destinate constructiei si centrarii rotilor. Sculele sunt asezate intr-un modul SOS cu doua straturi in interiorul unei cutii cmpacte din plastic*

Setul contine urmatoarele scule:

- *Chei de spite 3.3, 3.45, 4, 4.3, 5, 5.5 mm*
- *Cheie de spite Shimanao*
- *Cheie de caslaj pentru spite plate*
- *Surubelnita pentru nipluri de spite si scula de asamblare nipluri*
- *Ansamblu de chei de spite Mavic*
- *Cheie de sptie DT Swiss cu profil torx*
- *Surubelnita tubulara pentru nipluri de spita patrate 5.5mm cu maner in T*
- *Rigla de masura pentru raze, bile de rulment si chei de arbore*

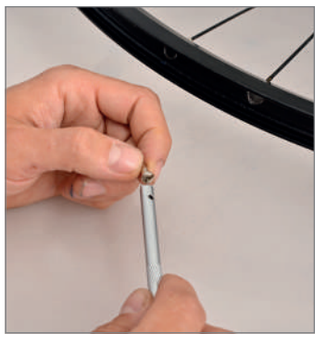


UNIOR

623441	16	1560	1S	1	**1043,71**

1751/2 (1,2), **1751/2Q** (3,35 x 3,35), **1751/2T** (1,3), **1629** (357.5), **629TBI** (5.5), **193N** (5.5), **1633/2P** (4 x 4,4), **1634/2P** (4,3 x 4,4), **1636/2P** (5 x 5,5), **1635/2P** (), **1635/2AP** (), **1630/4DTPR** (TX 20), **1630/2P** (3.3, 3.45), **1632** (), **981PBS3** (346 x 292 x 62)





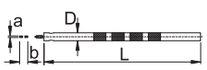


1751/2T

Scula de montaj pentru nipluri de spite

- *Scula Unior de asamblare a niplurilor este prietenul dumneavoastra cel mai bun cand se construiesc roti. Arcul sau tare va permite sa atasati niplul si sa-l in surubati prin peretele dublu al jantei. In felul acesta evitati sa scapati niplurile intre pereti.*
- *Arcul este intersanjabil.*





UNIOR

	a	b	D	L			
623299	1,3	6,5	6,5	130	4A	1	**59,94**

1751.1/7T

Set de 5 arcuri de rezerva pentru 1751/2T



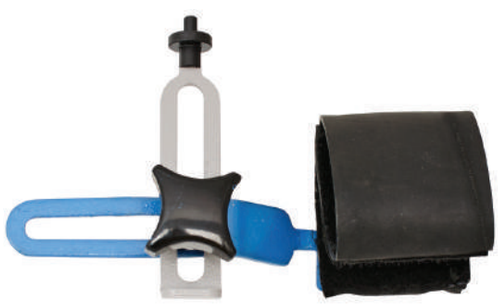
UNIOR

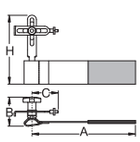
623300	1	1V	1	**38,22**

1753/6

Scule de buzunar de centrat roti

- *Fie ca sinteti utilizatori casnici, mecanic de echipa de ciclism, calator sau simplu ciclist, puteti scula de centrare roti peste tot. Cu ajutorul unei benzi velcro, scula poate fi montata pe furca sau pe suportul seii oricarei biciclete.*
- *Indicatorul este apoi folosit normal, ca pe orice alt centrator de roti. Scula poate fi de asemeni folosita la centrarea rotoarelor.*
- *Scula de buzunar pentru centrat roti 1753/6, usoara si foarte compacta, poate fi pusa usor in orice rucsac mic*





UNIOR

	A	B	C	H				
623310	185	52	25 - 67	125	84	1E	1	**82,90**

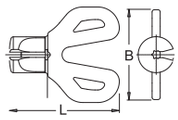


1630/4DTPR

Cheie de spite DT SWISS Torx

- *Articolul Unior 12630/4DTPR este folosit pentru niplu cu profil DT Swiss torx. Designul ergonomic usureaza si eficientizeaza munca*





UNIOR

		L	B				
623448	TX 20	48,5	40	25	4A	1	**72,73**

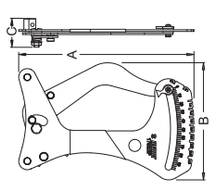
1752/2

Scula de masurare a tensiunii in spita

Cum sa utilizati scula:

- *Masuratorul de tensiune in spita Unior poate fi folosit pentru orice fel de spita. Masuratorul analog eslt livrat calibrat si gata de folosire. Pentru utilizre, apasati pe maner, pozitionati pozitionat spita intre celke doua brate si eliberati manerul. Scala gradata bine concepute este usor de citit. Valoarea masurata trebuie sa fie verificata in tabelul informativ furnizat, de unde se citeste tensiunea reala in functie de specificatiile spitei in cauza. Tabelul tiparit este inclus cu scula, impreuna cu instructiuni mai detaliate de folosire. Ca echipament suplimentar, swe livreaza o scula suplimentara de masurare a grosimii spitei, pentru usurarea operatiunii. Introduceti spita intr-una din deschiderile superioare si cititi valoarea indicata.*





UNIOR

	A	B	C			
623302	205	130	34	1S	1	**487,57**

1690/1

Scula pentru verificarea simetriei rotii

- *Material: otel de constructie, otel inox, si polipropilena*
- *Forma precisa a sculei permite verificarea rotilor cu dimensiunea de la 16 la 29 de inchi, cu sau fara cauciucuri montate.*

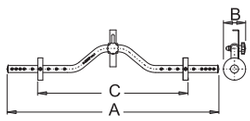
Cum sa utilizati scula:

- *Scula este destinata pentru verificarea simetriei dintre cadru si geanta rotii.Prima operatie, se monteaza scula la o distanta convenabila intre cadru si geanta funtie de dimesiunea rotii.Se apropie partea din mijloc de cadru si partea extrema trebuie sa fie in contact cu roata.Se fixeaza cu un surub se se verifica si fata cealalta a rotii.In acest fel ne putem convinge ca geanta rotii este centrata fata de cadru.Daca centrarea nu este corecta se face reglarea acesteia.*



UNIOR





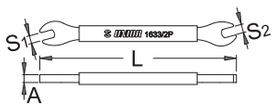
618486	320	660	667	70	850	1F	1	**302,96**

1633/2P

Cheie de spite

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *corpul cheii este acoperit cu plastic*
- *Cheia de spite este utilizata pentru centrarea spitelor cu dimensiuni de 4.0 si 4.4 mm ale rotii.Protectia de plastic a manerului cheii permite o stringhere usoara si desurubare a piulitelor de la spite.*





UNIOR

	S1	S2	L	A				
620179	4	4,4	100	4	29	4A	10	**27,74**
622789	3,3	3,45	100	4	29	4A	10	**27,58**



1634/2P

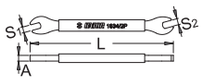
Cheie de spite,Shimani

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *corpul cheii este acoperit cu plastic*
- *Cheia de spite Shimano este utilizata pentru centrarea spitelor cu dimensiuni de 4,3 si 4,4 mm la Shimano® Wheel System.Manerul acoperit cu plastic asigura strangere confortabila si impiedica desurubarea piulitelor de fixare a spitelor .Lungimea cheii este de 100 mm, asigurand acces la piulitele de pe janta.*





UNIOR



	S1	S2	L	A				
618410	4,3	4,4	100	4	29	4A	10	27,58

1635/2P

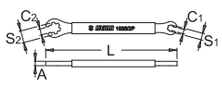
Cheie de spite Mavic

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *corpul cheii este acoperit cu plastic*
- *Partea mica este folosita pentru nipluri cu diametrul exterior de 6.4 mm, in timp ce partea mare este folosita pentru montarea si demontarea cauciucurilor fara camera Mavic.Acoperirea cu plastic a manerului asigura o strangere si o desurubare confortabila a niplurilor.*





UNIOR



	S1	S2	L	C1	C2	A			
618411	6	10,9	120	3,7	5,4	4	41	4A	10	29,59

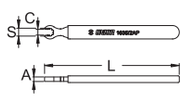
1635/2AP

Cheie de raze Mavic R-sys

- *Cheia de spite Mavic (1635/2AP) se foloseste pentru nipluri de spita cu un diametru exterior de 5.65 mm, utilizate pe noile roti Mavic R-sys. Corpul acoperit cu plastic asigura o starngere si desurubare confortabile.*



UNIOR



	S	C	A	L				
623449	6,8	5,1	4	120	32	4A	1	26,81



1636/2P

Cheie de spite 5 si 5,5 mm

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *corpul cheii este acoperit cu plastic*
- *Aceasta cheie este destinata centrarii spitelor de 5 si 5,5 mm.Invelisul de plastic asigura o strangere usoara si impiedica desurubarea piulitelor de fixare.*



UNIOR



	S1	S2	L	A				
619718	5	5,5	100	4	29	4A	10	27,12

1630/2P

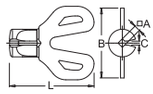
Cheie de spite

- *Material: Otel Carbon de scule calit si revenit*
- *Manere din doua straturi de plastic*
- *Cheia de spite este destinata pentru intinderea piulitelor plate cu diametrul de 3, 3 mm pana la 3, 45 mm.*
- *Forma ergonomica face munca usoara si eficienta.Cheia de 3, 3 mm are culoare albastra iar cea de 3, 45 mm are culoarea gri*

UNIOR







		L	A	B	C				
615532	3.3	45	3,3	42	2,2	27	4A	10	64,41
615533	3.45	45	3,45	42	2,2	27	4A	10	64,41

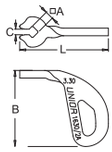
1630/2A

Cheie de spite

- *Cheia de spite este destinata pentru intinderea niplurilor plate cu diametrul de 3, 3 mm pana la 3, 45 mm.Forma cheii asigura o perfecta actionare a niplurilor fara patinare si asigurand un lucru eficient*



UNIOR

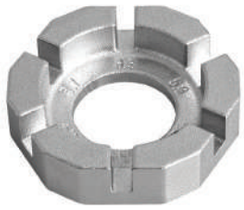


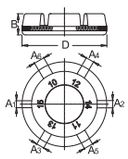
		A	B	C				
616759	3.3	3,3	30	2,2	15	1E	10	14,33
616845	3.45	3,45	30	2,2	15	1E	10	14,33

1631/2

Cheie tripla pentru spite

- *Material: Otel Carbon*
- *tratament termic complet*
- *Cheia este utilizata pentru cele mai populare piulite de spite de marimea 3, 3 mm, 3, 45 mm, 3, 7 mm, 3, 96 mm, 4, 4 mm si 5mm.Forma acesteia se adapteaza perfect mainii asigurand confort si o stringere usoara.*





UNIOR

	D	B	A1	A2	A3	A4	A5	A6				
616289	40	10	3,3	3,45	3,7	3,96	4,4	5	50	4A	10	**63,18**



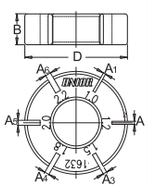


1632

cheie pentru fixarea spitelor

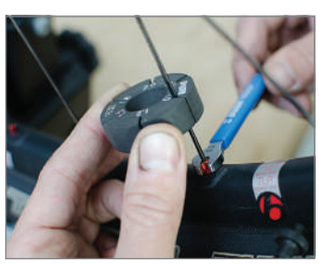
- *material:poliamida*





UNIOR

	D	B	A1	A2	A3	A4	A5	A6				
617588	40	12	1	1,2	1,5	1,8	2	2,2	22	4A	10	**49,47**



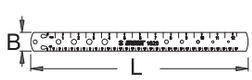


1629

Rigla calibru pentru masurare rulmenti si distante intre elemente

- *Acesta este usor de folosit si permite masurarea dimensiunii spitelor si rulmentilor precum si a diametrelor.*





UNIOR

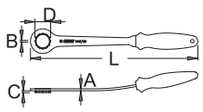
	L	B				
620561	357.5	30.8	129	1P	1	**60,56**

1663/2BI

Cheie pentru piulita discului de frana Saint

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *maner ergonomic rezistent bimaterial*
- *Cheia este destinata instalarii si demontarii discurilor de frana Shimano Saint. Deschiderea cheii este in intregime adecvata pentru piulita discurilor de frana avand corpul cotit, asigurand un lucru rapid si de calitate.Manerul din doua componente confera o prindere ferma asigurand o forta maxima de antrenare a cheii, o desurubare si o strangere a discului rapida.*





UNIOR

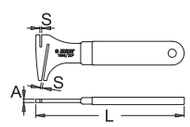
	L	D	B	A	C				
618413	342	31,7	3,0	4,0	3,5	285	4B	10	**113,88**

1666/2DP

Scula de ajustare foaie de lant

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Scula destinata reparatii micilor deformari ale foii de lant.Prezinta doua fante de dimensiuni diferite, alegand-o pe cea optima interventiei.*





UNIOR

	S	L	A			
619716	2,2	183	4	177	4A	10	**58,87**

1750/2BI

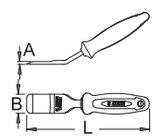
Intinzator pentru discul de frana

- *material:compozitie speciala pentru calire revenire*
- *maner ergonomic rezistent bimaterial*
- *suprafata:cromata in concordanta cu standardul EN 12540*
- *Scula este indoita la 30 grade*
- *utilizata pentru schimbarea discurilor de frana*

Cum sa utilizati scula:

- *demontati roata de pe bicicleta*
- *introduceti scula intre discurile de frana, impingeti pana cele doua pistoane reintra in locasul din cadru*
- *Scoateti scula*
- *montati discuri noi*
- *reinstalati roata de bicicleta*





UNIOR

	A	B	L				
621889	3,5	25	160,5	130	4B	1	**86,91**

1688

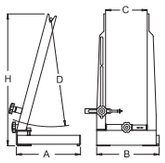
Stand de centrare roti - pentru pasionatii de biciclete

- *material otel special de scule*
- *Este posibila fixarea rotilor cu dimensiuni de la 16 la 29 inch cu sau fara cauciuc.*
- *suportii butucului pana la latimea de 157 mm*
- *Standul este destinat interventiilor ocazionale.Este foarte usor de utilizat, greutate usoara (2,3 kg) si nu necesita un spatiu special.Partea din stanga este fixata pe suport in timp ce partea dreapta este mobila functie de diferitele lungimi ale axului rotii.*

Cum sa utilizati scula:

- *Standul poate fi pliat prin rabaterea piciorului spre cadru.*
- *De asemenea standul poate fi pliat pe bancul de lucru cu suruburi, fapt ce-i confera mai mare stabilitate*
- *Senzorul de centrare este situat pe o singura parte ceea ce inseamna ca se face centrarea pe o parte dupa care se intoarce roata si se centreaza pe cealalta parte.*
- *Ca o functie suplimentara se poate face o verificare si a pinioanelor dintate.*





UNIOR

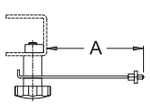
	DT	CL	CT	A	B	H				
623060	760	90	172	218	217	463	2300	1G	1	**443,50**

1688.2

Etrier de frana pentru 1688

- *Piesa de schimb pentru 1688 stand de centrare roata*





UNIOR

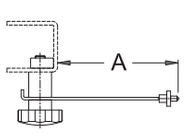
	A				
621616	96	74	1E	1	**85,83**

1689.2

Compas grosime frane pentru 1689

- *Aceasta permite verificarea reala a discurilor de frana*
- *Etrierul de frana este folosit la art 1689 stand profesional de centrare roata.*





UNIOR

	A				
622603	61	45	1E	1	**90,61**



1689

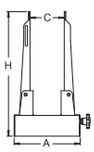
Stand de centrare pentru uz profesional

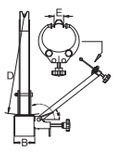
- *material otel special de scule*
- *accepta roti de la 16 la 29 inch cu sau fara cauciuc*
- *suportii butucului pana la latimea de 157 mm*
- *pentru axe ale rotii de 20 mm este nevoie de un adaptor suplimentar*
- *Acest stand este destinat in special pentru profesionist si este conceput pentru atelierele de reparatii.Poate fi montat pe bancul de lucru sau prins in menghina.*
- *Calibrul asigura controlul simultan al rotii pe ambele fete cu posibilitatea suplimentara de a controla simetria radiala in raport cu butucul*
- *Geometria calibrului de reglare asigura un control axial simultan pentru acuratetea reglarii rotii*
- *Calibrul are o protectie de plastic pe varfuri pentru a preveni lasarea de urme pe roata.*
- *Bratul din dreapta sus poate fi reglat cu un buton rotativ si fixat axul cu acesta. Bratul calibrului poate fi reglat pe raza rotii iar varful calibrului se regleaza pentru a palpa geanta*
- *Cand se schimba roata, arcul actioneaza pe bratul drept al calibrului si aceasta este retras dand posibilitatea de introducere a unei alte roti pentru centrare.Se asigura reglarea rapida a mai multor roti de aceiasi dimensiune.*
- *controlul discului de frana poate fi facuta cu un calibru suplimentar introdus in canalul bratului drept.*
- *gaurile aditionale sunt utile pentru depozitarea tuturor celor trei dimensiuni de inserturi 1689.3 (12, 15 si 20 mm)*
- *piulitele suplimentare din partea inferioara a standului asigura strangerea acestuia de bancul de lucru*

Important

- *1689 stand profesional de centrare, bratul standului se poate descentra dupa ce a fost utilizat frecvent. Controlul bratul etrier ne permite, calibrarea bratului inapoi, la pozitia de centru.*







UNIOR

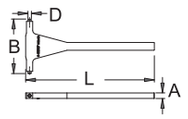
	DT	CL	CT	EL	ET	A	B				
623059	385	40	206	24	80	282	80	7300	1G	1	**1267,00**

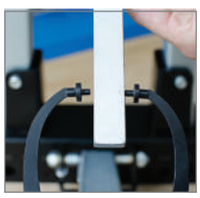
1689.1

Brat compas de grosime pentru 1689

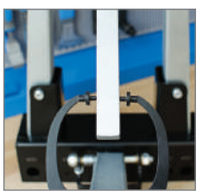
- *Art 1689 stand profesional de centrare a rotilor poate fi usor scos dupa utilizare. Bratul de calibrare al acestuia asigura operatia de calibrare a bratului spate in pozitia sa centrala.*











UNIOR

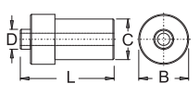
	D	B	L	A				
621615	8	139,5	330	14	1159	1E	1	**400,96**

1689.3

Adaptor pentru ax de roti de 20mm

- *Adaptor pentru reglarea rotii cu 20 mm ax butuc*





UNIOR

			C	D	B	L				
623004	12	2	11,9	9,8	17	46	46	1E	1	**74,74**
623005	15	2	14,9	9,8	20	46	46	1E	1	**77,05**
621617	20	2	19,9	9,8	24,5	46	46	1E	1	**83,83**

1689.5

Cap de schimb pentru etrier

- *Cap de schimb din plastic pentru etriere 1688.2, 1689.2, 1689.4*



UNIOR

623256	1	1V	1	**7,86**

1689.6

Adaptor Cannondale Lefty pentru stand de centrare.

- *Adaptorul Canondale Lefty se foloseste pentru centrarea rotilor din fata Cannondale lefty care, din cauza formei si dimensiunilor asimetrice, nu pot fi corect centrate utilizand adaptoarele de stand de centrare standard*



UNIOR

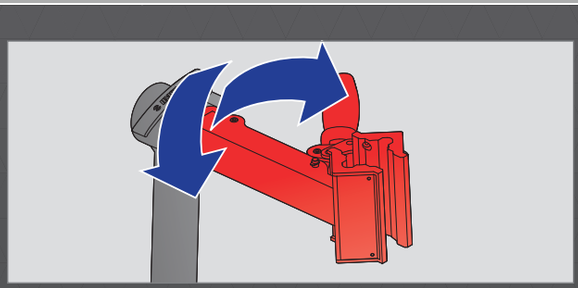
623450	80	1V	1	**101,40**



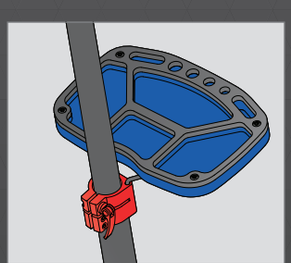
BIKE GATOR

Bike Gator ! Noua generatie de suporti velo UNIOR (1693AS)
Suportul poseda o noua paleta de piese de aluminiu si otel de precizie, care ofera rigiditate si durabilitate

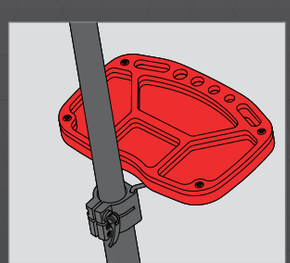




NOU sistem de fixare si de rotatie a falcii



sistem de culisare imbunatatit



Tava noua de scule din metal, cu insertie de spuma SOS intersanjabila

1693A

Stand pentru repararea bicilcetei cu tuburi suport

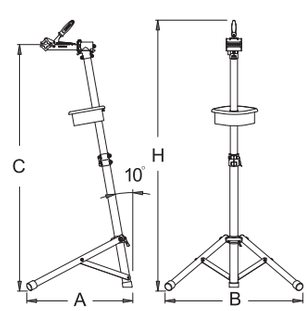
Bike Gator ! Noua generatie de suporti velo UNIOR (1693AS)

- *Standul pentru repararea bicicletei este scula de baza pentru service-uri si amatorii pasionati*
- *Este usor de asamblat iar tuburile suport se pot plia asfel incat mutarea locului de lucru se face usor*
- *Caoacitatea maxima de incarcare este de 30 kg*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø32 mm*
- *greutatea standului este de 6.5 kg*
- *Falci De Cauciuc Interschimbabile Art. 1693.11*

Avantaje:

- *Suportul poseda o noua paleta de piese de aluminiu si otel de precizie, care ofera rigiditate si durabilitate*
- *NOU sistem de fixare si de rotatie a falcii*
- *sistem de culisare imbunatatit*
- *Tava noua de scule din metal, cu insertie de spuma SOS intersanjabila*





UNIOR

	C↓	C↑	B	A	H↑				
621470	980	1550	870	665	1680	8600	1K	1	1424,95

1693AS

Stand cu suport din teava si falca cu piulita reglabila

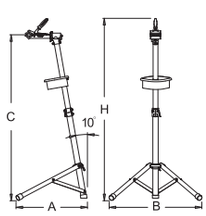
Bike Gator ! Noua generatie de suporti velo UNIOR (1693AS)

- *Standul pentru repararea bicicletei este scula de baza pentru service-uri si amatorii pasionati*
- *Este usor de asamblat iar tuburile suport se pot plia asfel incat mutarea locului de lucru se face usor*
- *Caoacitatea maxima de incarcare este de 30 kg*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø40 mm*
- *greutatea standului este de 6.5 kg*
- *falci de cauciuc ionterschimbabile Art. 1693.11*

Avantaje:

- *Suportul poseda o noua paleta de piese de aluminiu si otel de precizie, care ofera rigiditate si durabilitate*
- *NOU sistem de fixare si de rotatie a falcii*
- *sistem de culisare imbunatatit*
- *Tava noua de scule din metal, cu insertie de spuma SOS intersanjabila*





UNIOR

	CL	CT	B	A	HT					
623222	980	1550	870	665	1680	8600	1F	1	1428,95

1693BAG

Sac pentru stand de bicicletе BikeGator

- *Aceasta geanta robusta, de fabricatie de inalta calitate, este conceputa pentru transportul si protectia standului BikeGator 1693A*
- *Poseda curele pentru umar sau mana, doua compartimente pentru transportul separat al structurii suportului si al menghinei / suport de scule*
- *Util pentru transportul iin avion, in masina sau pur sii simpplu pentru depozitare in atelier*



UNIOR

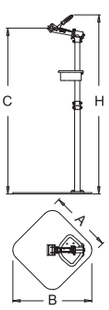
624035	1V	1	155,79

1693B

Stand pentru repararea bicicletei cu placa fixa

- *Standul pentru repararea bicicletei cu placa fixa este produs pentru service-uri si utilizarea de zi cu zi*
- *Placa fixa este ergonomica. Capacitatea maxima de incarcare este de 30 kg, ceea ce permite servisarea bicicletelor mai grele folosite la downhill.*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø32 mm*
- *greutatea standului este de 36 kg*
- *falci de cauciuc ionterschimbabile Art. 1693.11*
- *Standul de reparatii 1693B1 este destinat pentru montarea acestuia pe podea sau pe un suport*





UNIOR

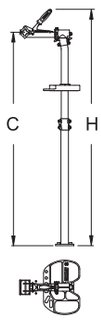
	CL	CT	B	A	HT					
621471	985	1570	726	572	1700	36800	1G	1	2250,91

1693B1

Stand cu o falca cu arc si fara farfurie plata

- *Stand pentru reparare biciclete destinat atelierelor de service si utilizatorilor de zi cu zi.*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø32 mm*
- *falci de cauciuc ionterschimbabile Art. 1693.11*
- *Standul de reparatii 1693B1 este destinat pentru montarea acestuia pe podea sau pe un suport*





UNIOR

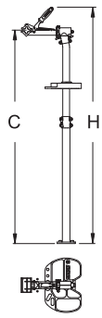
	C↓	C↑	H↑				
623226	985	1570	1570	6800	1F	1	**1249,43**

1693BS1

Stand cu o falca cu piulita reglabila si fara farfurie plata

- *Stand pentru reparare biciclete destinat atelierelor de service si utilizatorilor de zi cu zi.*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø40 mm*
- *falci de cauciuc ionterschimbabile Art. 1693.11*
- *Standul de reparatii 1693B1 este destinat pentru montarea acestuia pe podea sau pe un suport*





UNIOR

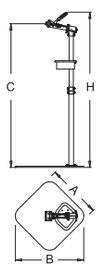
	C↓	C↑	H↑				
623227	985	1570	1700	6800	1F	1	**1246,81**

1693BS

Stand cu farfurie plata si falca cu piulita reglabila

- *Standul pentru repararea bicicletei cu placa fixa este produs pentru service-uri si utilizarea de zi cu zi*
- *Placa fixa este ergonomica. Capacitatea maxima de incarcare este de 30 kg, ceea ce permite servisarea bicicletelor mai grele folosite la downhill.*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø40 mm*
- *greutatea standului este de 36 kg*
- *falci de cauciuc ionterschimbabile Art. 1693.11*





UNIOR

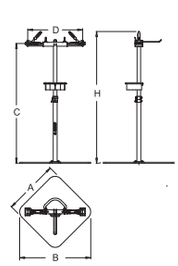
	C↓	C↑	B	A	H↑				
623223	985	1570	726	572	1700	36800	1F	1	**2248,45**

1693C

Stand de repararea bicicletelor cu doua falci cu arc

- *Standul de reparatii biciclete cu placa fixa si doua falci este conceput pentru atelierele de service si pentru clientii mai pretentiosi*
- *Standul permite lucrul a doi mecanici la doua biciclete in acelasi timp*
- *Farfuria de plastic asigura aranjarea si accesul usor la scule si la piesele demontate.*
- *Partea plata are un design ergonomic.Incarcarea max.45 de kg care permite service pentru bicicletele foarte grele.*
- *Greutatea standului este de 56,5kg.*
- *Accesorii aditionale-suport de hartie*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø32 mm*
- *falci de cauciuc ionterschimbabile Art. 1693.11*
- *Standul de reparat biciclete 1693C1,1693CS1 si 1693CS2 este destinat pentru montarea pe podea sau pe un suport.*





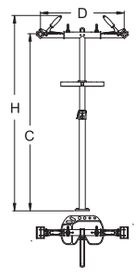
	H	D	C↓	C↑	A	B				
622581	1680	704	985	1570	700	905	56500	1C	1	**3148,23**

1693C1

Stand cu doua falci cu arc si fara farfurie reglabila

- *Stand de reparare biciclete cu doua falci este destinat pentru service-uri de biciclete si utilizatorii pasionati*
- *Standul permite lucrul a doi mecanici la doua biciclete in acelasi timp*
- *Farfuria de plastic asigura aranjarea si accesul usor la scule si la piesele demontate.*
- *Accesorii aditionale-suport de hartie*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø32 mm*
- *falci de cauciuc ionterschimbabile Art. 1693.11*
- *Standul de reparat biciclete 1693C1,1693CS1 si 1693CS2 este destinat pentru montarea pe podea sau pe un suport.*





UNIOR

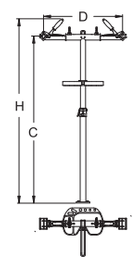
	H	D	C↓	C↑				
623228	1680	704	985	1570	11500	1F	1	1990,95

1693CS1

Stand pentru reparare biciclete cu doua falci si piulita reglabila fara farfurie plata

- *Stand de reparare biciclete cu doua falci este destinat pentru service-uri de biciclete si utilizatorii pasionati*
- *Standul permite lucrul a doi mecanici la doua biciclete in acelasi timp*
- *Farfuria de plastic asigura aranjarea si accesul usor la scule si la piesele demontate.*
- *Accesorii aditionale-suport de hartie*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø40 mm*
- *falci de cauciuc ionterschimbabile Art. 1693.11*
- *Standul de reparat biciclete 1693C1,1693CS1 si 1693CS2 este destinat pentru montarea pe podea sau pe un suport.*





UNIOR

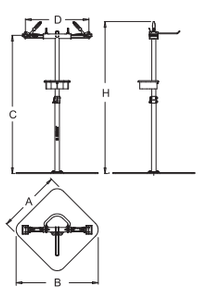
	H	D	C↓	C↑				
623229	1680	704	985	1570	11500	1F	1	1985,87

1693CS

Stand cu farfurie plata si doua falci, piulita reglabila

- *Standul de reparatii biciclete cu placa fixa si doua falci este conceput pentru atelierele de service si pentru clientii mai pretentiosi*
- *Standul permite lucrul a doi mecanici la doua biciclete in acelasi timp*
- *Farfuria de plastic asigura aranjarea si accesul usor la scule si la piesele demontate.*
- *Partea plata are un design ergonomic. Incarcarea max.45 de kg care permite service pentru bicicletele foarte grele.*
- *Greutatea standului este de 56,5kg.*
- *Accesorii aditionale-suport de hartie*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø40 mm*
- *falci de cauciuc ionterschimbabile Art. 1693.11*





UNIOR

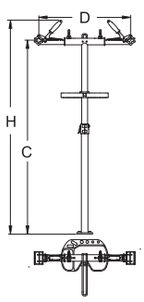
	H	D	C↓	C↑	A	B				
623224	1680	704	985	1570	700	905	56500	1F	1	3143,14

1693CS2

Stand pentru reparare biciclete cu doua falci (cu arc si piulita reglabila) fara farfurie plata

- *Stand de reparare biciclete cu doua falci este destinat pentru service-uri de biciclete si utilizatorii pasionati*
- *Standul permite lucrul a doi mecanici la doua biciclete in acelasi timp*
- *Farfuria de plastic asigura aranjarea si accesul usor la scule si la piesele demontate.*
- *Accesorii aditionale-suport de hartie*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø40 mm*
- *falci de cauciuc ionterschimbabile Art. 1693.11*
- *Standul de reparat biciclete 1693C1,1693CS1 si 1693CS2 este destinat pentru montarea pe podea sau pe un suport.*





UNIOR

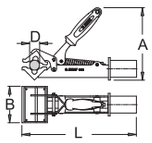
	H	D	C↓	C↑				
623230	1680	704	985	1570	11500	1F	1	1986,79

1693.1

Falca menghina mobila pentru 1693A si 1639B

- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø32 mm*





UNIOR

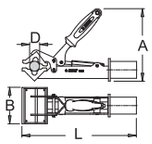
	D↓	D↑	B	A	L				
621472	24	32	96,5	192	305	3000	1F	1	**407,90**

1693.1S

Falca cu piulita reglabila pentru 1693

- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø40 mm*
- *Accesul simplu la surub asigura reglarea falcilor si a presiunii de strangere.Surubul poate fi actionat cu mana fara a folosi o cheie.*





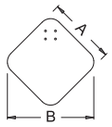
UNIOR

	D↓	D↑	B	A	L				
623206	24	38	96,5	192	305	1850	1F	1	**405,28**

1693.4B

Placa fixa pentru 1693B





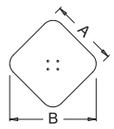
UNIOR

	B	A				
623231	726	572	30000	1K	1	**1001,64**

1693.4C

Placa fixa pentru 1693C





UNIOR

	B	A				
623232	905	700	45000	1K	1	**1157,28**

1693.3

Suport SOS pentru 1693

- *Noul modul de aranjare scule 1693.3 este fabricat din tabla de otel subtire si rezistenta, cu doua sine si un modul de spuma SOS*
- *Modulul de spuma este intersanjabil, cod 1693.6*
- *Modulul de aranjare se potriveste in noua generatie de suport 1693*
- *Verificati compatibilitatea cu distribuitorul local.*



UNIOR

623820	822	1K	1	**109,10**

1693.6

Modul SOS de schimb pentru modulul de organizare art. 1693.3

- *Modul SOS de schimb pentru modulul de organizare 1693.3*



UNIOR

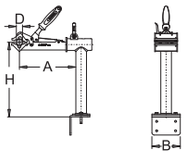
623821	27	1V	1	**31,74**

1693.2

Falci pentru menghina de banc si perete

- *Optiune de montare pe un banc sau pe perete*
- *Destinat profesionistilor si pasionatilor de biciclete*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø32 mm*





UNIOR

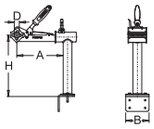
	D	D	B	A	H				
622589	24	32	120	239	313	4280	1F	1	999,33

1693.2S

Falca reglabila pentru montaj de perete sau pe banc

- *Optiune de montare pe un banc sau pe perete*
- *Destinat profesionistilor si pasionatilor de biciclete*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø40 mm*
- *surubul de reglare accesibil permite modificarea deschiderii falcilor si forta de inchidere.Surubul poate fi reglat cu mana fara a folosi o cheie.*





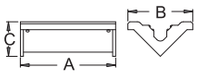
UNIOR

	D	D	B	A	H				
623225	24	38	120	239	313	4280	1F	1	996,71

1693.11

Falci de schimb de cauciuc pentru 1693.1





UNIOR

	A	B	C				
621961	96,5	66	35	64	1E	1	42,38

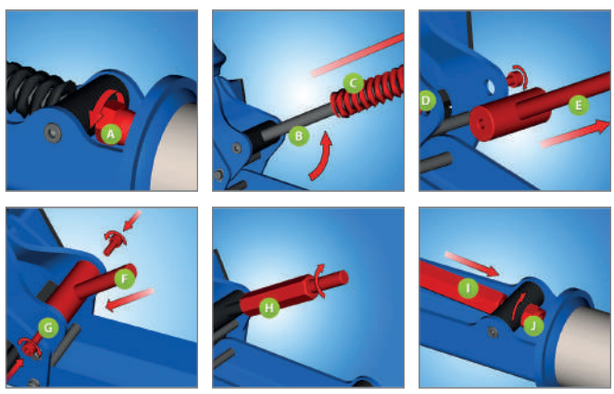
1693.12

Accesorii pentru manghina

- *Inocuirea arcului cu surub permite modificarea deschiderii falcilor si a fortei de strangere.Surubul poate fi actionat cu mana fara a folosi o cheie.*



UNIOR



623205	150	1V	1	65,49

1684

Suport de bicicleta

- *Greutate suportata: 50 lb sau 22,5 kg.*

Cum sa utilizati scula:

- *Suportul de bicicleta este un dispozitiv simplu ce permite agatarea bicicletei. Sistemul este fixat de perete.Ansamblul de agatare este fixat de perete.Bicicleta poate di ridicata sau coborata folosind o franghie.*



UNIOR

618371	1675	1F	1	108,02

1600A1

Set de scule de bicicleta cu 13 piese in husa

- *Set de baza ca scule de bicicleta pentru reparatii curente.Acesta trebuie sa fie in dotarea fiecarui biciclist.*



UNIOR

622878	13	650	1T	1	372,76

1631/2 (3,3 x 3,45 x 3,7 x 3,96 x 4,4 x 5), **220/3** (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), **1647/2ABI, 1644/2, 1657BLUE**

1600A2

Set de scule de bicicleta cu 19 piese in husa

- *Set de scule de baza pentru reparatii curente de biciclete. Utile pentru intretinerea curenta si mici reparatii.*



UNIOR

622879	19	2000	1T	1	901,17

1610/2 (15 x 15), **584/2POLLY** (180), **1657BLUE** (), **1612/2** (13 x 14 x 15 x 17, 13 x 14 x 15 x 16), **220/3L** (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), **1647/2ABI, 1660/2, 1631/2** (3,3 x 3,45 x 3,7 x 3,96 x 4,4 x 5), **1670.5/4 (), 1644/2**



1600A3

Set de scule de bicicleta cu 22 piese in husa

- *Set de scule pentru bicicleta pentru mecanici si fani ai bicicletelor.*



UNIOR

622880	22	2700	1T	1	1125,53

1610/2 (15 x 15), **1644/2, 584/2POLLY** (180), **615TBI** (PH2x100), **1612/2** (13 x 14 x 15 x 17, 13 x 14 x 15 x 16), **220/3L** (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), **1609/2BI, 1647/2ABI , 1660/2, 1631/2** (3,3 x 3,45 x 3,7 x 3,96 x 4,4 x 5), **1670.5/4, 1657BLUE, 1666/2DP** (2,2)

1600AT

Husa goala pentru 1600A



UNIOR

617229	210	200	160	1E	1	62,41

1600BT

Husa goala pentru 1600B



UNIOR

617230	390	270	280	1E	1	109,26

1600CT

Husa goala pentru 1600C



UNIOR

617231	380	460	453	1E	1	124,82

1600EN

Set de scule de bicicleta cu 37 de piese

- *Scule intermediare de bicicleta satisfac majoritatea nevoilor mecanicilor.*

UNIOR

622875	37	7200	1K	1	2881,95

1609/2BI, 1613/2BI (15), **1666/2DP** (2,2), **1657BLUE, 1617/2DP** (13, 14, 15, 16, 17), **1630/2P** (3.3, 3.45), **1750/2BI, 1660/2, 1661/4, 1670.5/4, 1671.1/4, 1671.2/4, 1682/4, 1647/2ABI, 250/1** (300), **193HX** (2.5, 3, 4, 5, 6, 8, 10), **220/3L** (2), **193TX** (TX 25), **615TBI** (PH 1 x 80), **1683/4A** (1" x 1.1/8" x 1.1/4" x 1.1/2"), **605TBI** (0.5 x 3.0 x 80), **1642.1/2P, 1681/4** (1" x 1.1/8" x 1.1/4"), **1644/2** (), **584/2POLLY (180),** AP1

1600N

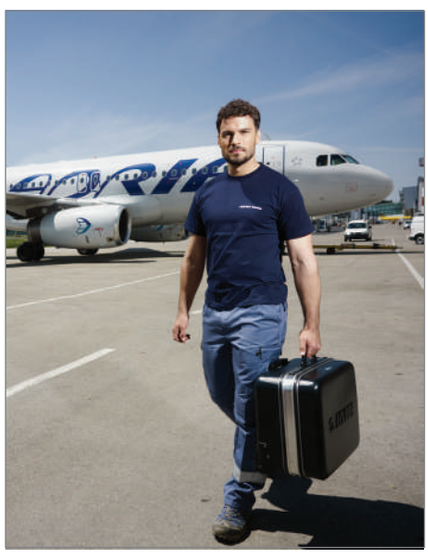
Set de scule de bicicleta in carucior de scule



UNIOR

622977	53	86200	1K	1	16810,74

1600SOS7, 1600SOS8, 1600SOS9, 1600SOS10, 1600SOS11, 1600SOS12, 940E4 (720 x 440 x 895)



1600E1N

Set de scule de bicicleta in cutie metalica

- *Sculele intermediare de bicicleta satisfac majoritatea nevoilor mecanicilor.*



UNIOR

623008	37	11000	1K	1	3224,20

1600EN, 911VSOS (95 x 447 x 30), 911/5 (460 x 210 x 220)

1600G1N

Set de scule de bicicleta cu 50 piese in geanta tip troler

- *Sculele avansate de bicicleta satisfac majoritatea cerintelor mecanicilor.*



UNIOR

622877	50	20700	1K	1	6820,24

1600GN, 969L (510 x 405 x 270), **969.2L, 969.21L**

1600SOS7

Set de scule de bicicleta in modul SOS

- *Setul de scule pentru bicicleta include majoritatea sculelor necesare pentru reparatii manuale si intretinere a furcii ghidonului.*



UNIOR

622862	8	7300	1F	1	2687,94

1680/4 (1" x 1.1/8" x 1.1/4" x 1.1/2"), **1683/4A** (1" x 1.1/8" x 1.1/4" x 1.1/2"), **1681/4** (1" x 1.1/8" x 1.1/4"), **1682/4,** **1681.1/4** (1.1/4" x 1.1/2"), **1696** (1" x 24 tpi), **1696.2** (1.1/8" x 26 tpi), **1618/2DP** (36), **vl1600SOS7** (564 x 364 x 30)



1600GN

Set de scule de bicicleta cu 50 de piese

- *Sculele avansate de bicicleta satisfac majoritatea cerintelor mecanicilor.*



UNIOR

622876	50	12700	1K	1	4387,95

190.1/1ABI (1/2"), **1609/2BI,** **1612/2A** (8 x 9, 10 x 11), **1666/2DP** (2,2), **1657BLUE,** **1613/2BI** (15), **1750/2BI,** **1617/2DP** (13, 14, 15, 16, 17, 32), **1630/2P** (3.3, 3.45), **1647/2ABI,** **1660/2,** **1661/4,** **1670.5/4,** **1671.2/4,** **1680/4** (1" x 1.1/8" x 1.1/4" x 1.1/2"), **1681/4** (1" x 1.1/8" x 1.1/4"), **1682/4,** **1683/4A** (1" x 1.1/8" x 1.1/4" x 1.1/2"), **253/2DP,** **1642.1/2P,** **1606** (2 x 2.5 x 3), **193HX** (2.5, 3, 4, 5, 6, 8, 10), **220/3L** (2), **193TX** (TX 25), **615TBI** (PH 1 x 80, PH 2 x 100), **605TBI** (0.5 x 3.0 x 80, 0.8 x 4.0 x 100), **449/1PYTHON** (240), **449.1** (240), **1643/4** (0 - 1,2), **1670/2BI, 45/2BI,** **250/1** (300), **1671.1/4,** **584/2POLLY** (180), **AP1**

vl1600SOS7

Modul SOS pentru 1600SOS7

UNIOR

622868	564	364	30	168	1V	1	128,98

Modul de plastic pentru 1600SOS8

UNIOR

622869	564	364	30	128	1V	1	128,98

1600SOS8

Set de scule de bicicleta in modul SOS

- *Set scule bicicleta pentru suport lant si reparatii de baza la roata.*



UNIOR

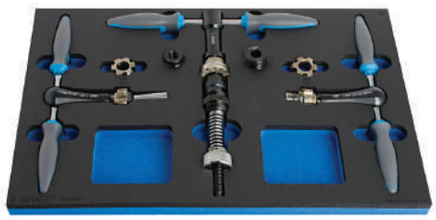
622863	12	3000	1F	1	1376,71

1601/2DP (), **1658/2P,** 466/1BI (180), 1612/2 (13 x 14 x 15 x 17, 13 x 14 x 15 x 16), **183/2** (8 x 10), **193TX** (TX 25), **1666/2DP** (2,2), **1647/2ABI** (), **1642.1/2P, 584/2POLLY (180),** **1663/2BI** **(), vl1600SOS8** (564 x 364 x 30)

1600SOS9

Set de scule de bicicleta in modul SOS

- *Set de scule pentru bicicleta pentru diverse lucrari de taiere si filetare a axului pedalier.*



UNIOR

622864	3	5000	1F	1	2769,92

1699 (36 x 24 tpi (ITAL) x 1.3/8 x 24 tpi (BSA)), **1698.1** (36 x 24 tpi (ITAL)), **1697** (1.3/8 x 24 tpi), **vl1600SOS9** (564 x 364 x 30)

vl1600SOS9

Modul SOS pentru 1600SOS9

UNIOR

	B	L	H				
622870	564	364	30	128	1V	1	128,98

1600SOS10

Set de scule de bicicleta in modul SOS

- *Set de scule pentru bicicleta pentru lucrari la cadrul acesteia.*



UNIOR

622865	3	6500	1F	1	2964,54

1614/4BI (1" x 1.1/8" x 1.1/2"), **1694** (1.1/8"), **1605/2, vl1600SOS10** (564 x 364 x 30)

vl1600SOS10

Modul SOS pentru 1600SOS10

UNIOR

	B	L	H				
622871	564	364	30	128	1V	1	128,98

1600SOS11

Set de scule de bicicleta in modul SOS

- *Set de scule de bicicleta destinat lucrului la diverse angrenaje si furci standard.*



UNIOR

622866	11	4800	1F	1	1821,75

1625/2 (60), 1664, **1613/2BI** (15), **1608/2BI, 1609/2BI,** **190.1/1ABI** (1/2"), **1671.6/2BI, 1671.5/2BI,** **1671.1/4,** **1671.2/4, 1661.3/4P, vl1600SOS11** (564 x 364 x 30)

vl1600SOS11

Modul SOS pentru 1600SOS11

UNIOR

	B	L	H				
622872	564	364	30	128	1V	1	128,98

1600SOS12

Set de scule de bicicleta in modul SOS

- *Setul de scule de bicicleta este destinat spitelor si casetei de pinioane.*



UNIOR

622867	15	2500	1F	1	1028,30

1635/2P, **1636/2P** (5 x 5,5), **1634/2P** (4,3 x 4,4), **1670.1/4,** **1670.4/4,** **1606** (2 x 2.5 x 3, 4 x 5 x 6), **1667/2, 1630/2P** (3.3, 3.45), **1670/2BI,** **1660/2,** **1670.5/4, 1669/4,** **1670.7/4, vl1600SOS12** (564 x 364 x 30)

vl1600SOS12

Modul SOS pentru 1600SOS12

UNIOR

	B	L	H				
622873	564	364	30	128	1V	1	128,98

1754

Kit universal de montaj de roti

- *Articolul Unior 1754 este un set complet de scule universale destinate constructiei si centrarii rotilor. Sculele sunt asezate intr-un modul SOS cu doua straturi in interiorul unei cutii cmpacte din plastic*

Setul contine urmatoarele scule:

- *Chei de spite 3.3, 3.45, 4, 4.3, 5, 5.5 mm*
- *Cheie de spite Shimanao*
- *Cheie de caslaj pentru spite plate*
- *Surubelnita pentru nipluri de spite si scula de asamblare nipluri*
- *Ansamblu de chei de spite Mavic*
- *Cheie de sptie DT Swiss cu profil torx*
- *Surubelnita tubulara pentru nipluri de spita patrate 5.5mm cu maner in T*
- *Rigla de masura pentru raze, bile de rulment si chei de arbore*



UNIOR

623441	16	1560	1S	1	1043,71

1751/2 (1,2), **1751/2Q** (3,35 x 3,35), **1751/2T** (1,3), **1629** (357.5), **629TBI** (5.5), **193N** (5.5), **1633/2P** (4 x 4,4), **1634/2P** (4,3 x 4,4), **1636/2P** (5 x 5,5), **1635/2P**, **1635/2AP** **(), 1630/4DTPR** (TX 20), **1630/2P** (3.3, 3.45), **1632, 981PBS3** (346 x 292 x 62)



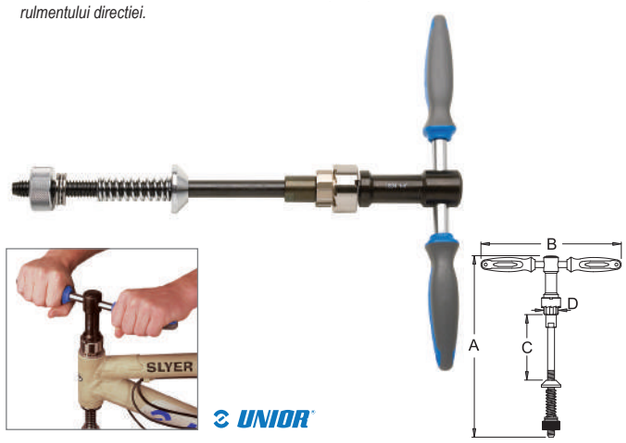
1694

Largirea capului tevii 1 1/8"

- *Material: otel aliat*
- *maner ergonomic rezistent bimaterial*
- *lungimea maxima a capului furcii - 190 mm*
- *adancimea maxima de largire - 15 mm*
- *Avantajul special al dispozitivului de bordurat Unior este optiunea rapida de decuplare si reglare.Forma conului de centrare este montat pe lagar ceea ce asigura functionarea fina a sculei. Toate suprafetele de taiere sunt caracterizate printr-un inalt nivel calitativ.*

Cum sa utilizati scula:

- *PENTRU SIGURANTA RULARII ROTII DIN FATA.Functionarea ireprosabila a rotii din fata si a directiei depinde de rulmentul care face legatura dintre furca si cadrul bicicletei. Atunci cand lagarul incepe sa se uzeze , vom repara paralelismul suprafetei tevii.Prin bordurarea tubuli de la directie obtinem o forma optima pentru calea de rulare a rulmentului directiei.*



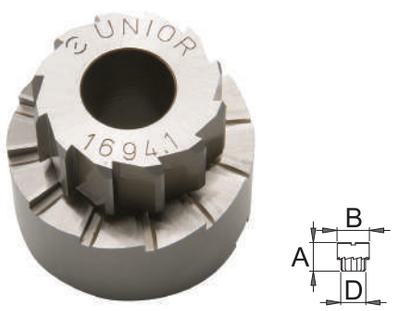
UNIOR

	D	A	B					
617593	1.1/8"	425	335	180	2070	1F	1	1015,51

1694.1

Alezor pentru 1694

- *Material: otel aliat*



UNIOR

	D	A	B				
617824	1.1/8"	39	44,1	295	1E	1	685,58

1695/4BI

Maner pentru scula de filetat pedala

- *Manerul filierei este folosit cu o singura filiera,spre exemplu filiera pentru bratul pedalei 1695.1AR.*
- *Manerele lungi asigura o utilizare precisa si usoara.*



UNIOR

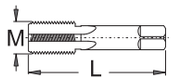
623190	515	4B	1	145,01

1695

Tarod pedala

- *Material: otel aliat*
- *Functionarea are rolul de a elimina rugina si a reface filetele uzate.Este disponibil in trei dimensiuni diferite.*
- *Finisarea protejeaza impotriva eventualelor deteriorari exterioare.*
- *M10 - tarod pentru inelul schibbatorului de pinioane (616079)M5 - tarod pentru butelia de apa, inel de tractare, aripa, parghie de reazem.(616078)M3 - tarod pentru schimbatorul de pinioane (616077)*





UNIOR

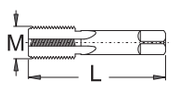
	M	L				
616077	3	60,5	8	1E	1	**31,28**
616078	5	60,5	11	1E	1	**31,28**
616079	10	60,5	22	1E	1	**68,42**

1695.1

Tarod pedala

- *Material: otel aliat*
- *Design precis, tratat,precum si forma art 1695.1 il fac util pentru taierea de filete noi inainte de introducerea bucsilor filetate 1695.3 sau 1695.4 si este disponibil in set (stanga si dreapta).Se foloseste in varianta de tarod unic conform variantei franceze.*





UNIOR

	M	L				
616080	9/16 x 20 TPI	60,5	79	1E	1	**213,89**

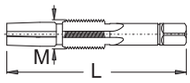


1695.2

Tarod pedala

- *Material: otel aliat*
- *Design precis, tratat,precum si forma art 1695.2 il fac util pentru taierea de filete noi inainte de introducerea bucsilor filetate 1695.3 sau 1695.4 si este disponibil in set (stanga si dreapta).Tarodul 1695.2 curata filetul vechi inainte de realizarea unui nou filet, nu mai este necesar un alt tarod si o alta trecere dupa.*





UNIOR

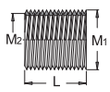
	M	L				
616081	16 x 1	90,5	140	1E	1	**651,07**

1695.3

Set de 10 piese pentru corectarea filetului pedalei

- *Material: otel aliat*
- *diametrul interior:M14 x 1,25*
- *diametrul exterior: M16 x 1*
- *Setul de reparare a filetelor este utilizat pentru inlocuirea filetelor deteriorate.Acesta este utilizat impreuna cu tarodul apropiat (art. 1695.2) si este disponibil in set de 10 piese.*





UNIOR

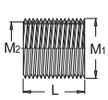
	M1	M2	L				
616082	M16x1	M14x1,25	13,2	45	1E	1	**201,25**

1695.4

Set de10 piese pentru corectarea filetului pedalei

- *Material: otel aliat*
- *diametrul interior:M14 x 1,25*
- *diametrul exterior: M16 x 1*
- *Setul de reparare a filetelor este utilizat pentru inlocuirea filetelor deteriorate.Acesta este utilizat impreuna cu tarodul apropiat (art. 1695.2) si este disponibil in set de 10 piese.*





UNIOR

	M1	M2	L				
616083	M16Lx1	M14Lx1,25	13,2	42	1E	1	**201,25**

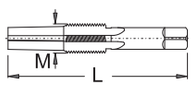


1695.1AL

Bucsa filetata pedala

- *Material: otel aliat*
- *Forma precisa, tratat termic si forma art.1965.1AL se foloseste pentru taierea filetelor pe stanga inainte de introducerea bucsii filetate 1695.3L.Filiera 1695.1AL inlatura vechiul filet inainte de taierea unuia nou, nu mai este necesara o alta operatie de filetare.*





UNIOR

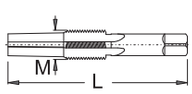
	M	L				
616554	5/8" x 24 TPI	85,5	81	1E	1	**119,58**

1695.1AR

Bucsa filetata pedala

- *Material: otel aliat*
- *Design si forma precisa a art 1965.1AR care este destinat taierii filetelor pe dreapta inainte de introducerea bucsii filetate pe dreapta 1695.3A.Tarodul 1695.1AR inlocuieste vechiul filet si realizeaza filetarea unuia nou, nefiind necesara o alta operatie.*





UNIOR

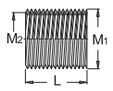
	M	L				
616553	5/8" x 24 TPI	85,5	80	1E	1	**119,58**

1695.3A

Set de 10 piese pentru corectarea filetului pedalei

- *Material: otel aliat*
- *diametrul interior: 9/16 x 20 TPI*
- *diametrul interior: 9/16 x 20 TPI*
- *Setul de reparare a filetelor este utilizat pentru inlocuirea filetelor deteriorate.Acesta se utilizeaza impreuna cu tarodul apropiat (art. 1695.1AR) si este disponibil in set de 10 piese.*





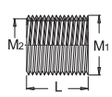
	M1	M2	L				
616551	5/8 x 24	9/16 x 20	16,3	49	1E	1	**193,24**

1695.4A

Set de 10 piese pentru corectarea filetului pedalei

- *Material: otel aliat*
- *diametrul interior:9/16 x 20 TPI*
- *diametrul interior:9/16 x 20 TPI*
- *Setul de reparatie filete este folosit la inlocuirea filetelor deteriorate.Sunt folosite impreuna cu tarodul apropiat (art. 1695.1AL) si este disponibil in set de 10 piese.*





	M1	M2	L				
616552	5/8Lx24	9/16L x 20	16,3	50	1E	1	**193,24**

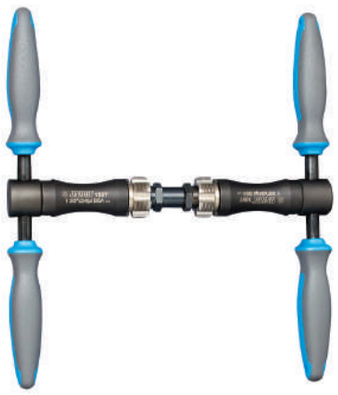


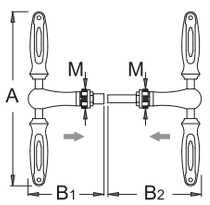


1697

Scula de filetat locas furca (BSA)

- *Material: otel aliat*
- *maner ergonomic rezistent bimaterial*
- *Scula este destinata pentru filetarea in carcasa cadrului.Cand se fileteaza stanga sau dreapta introduceti scula paralel fata de ambele parti al carcasei cadrului.Forma asigura o munca eficienta si precisa*





	M	B1	B2				
616076	1.3/8x24 tpi	145	180	2200	1F	1	**1011,19**

1697.1

Filiere de schimb pemtru 1697

- *Material: otel aliat*
- *filiere stanga si dreapta sunt disponibile in setul pentru articolul 1697*







		A				
617310	1.3/8x24 tpi (BSA)	18	117	1E	1	**642,90**

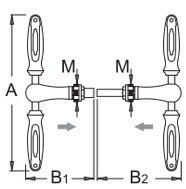


1698

Scula de filetare locas furca, ITAL

- *Material: otel aliat*
- *maner ergonomic rezistent bimaterial*
- *Pentru refacerea si taierea filetelor in cadru cu locasurile de rulmenti,foloseste un cutit de filete. Este destinata in mod special pentru roti de origine Italiana care are filet pe dreapta pe ambele parti a locasului pentru rulmenti (36 mm x 24t pi), aceasta insemnand o derulare in ambele parti in sensul acelor de ceasornic.Poti de asemenea sa repari filetele folosind cutitul de filet.*





	M	B2				
617589	36x24 tpi (ITAL)	180	2300	1F	1	**976,68**

1698.1

Tarozi de schimb pentru 1698

- *Material: otel aliat*
- *Tarod stanga si dreapta disponibili in set pentru art 1698*







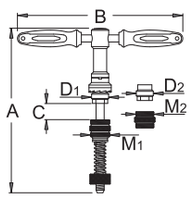
	M	A				
617590	36x24 tpi (ITAL)	18	122	1E	1	**655,38**

1699

Scula pentru frezare frontala (BSA si ITAL)

- *Material: otel aliat*
- *maner ergonomic rezistent bimaterial*
- *Pentru a curata suprafata carcasei butucului, utilizati setul complet de scule pentru tratament frontal si taiate. Utilizarea este simpla: Strangeti bitii cu partea filetata in jos si fixati arcul si piulita pentru a asigura o forta axiala suficienta.Cu un design excelent si o executie de inalt nivel calitativ, scula va asigura atat pe dreapta cat si pe stanga o strangere simultana si coaxiala.*





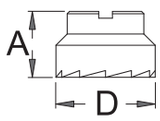
	M1	M2	A	CT	D1	D2				
617591	36x24 tpi(ITAL)	1.3/8x24tpi(BSA)	325	90	34,8	33,5	2340	1F	1	**974,36**

1699.1

Scula de strunjit pentru 1699

- *Material: otel aliat*





	A	D				
617592	29	44	197	1E	1	**422,69**

1655FH

Set de scule multifunctional pentru biciclete

- *Scula multifunctionala este o excelenta solutie pentru fiecare biciclist*
- *Se adapteaza perfect in orice buzunar sau husa de biciclist*
- *Scula te ajuta la mici reparatii a bicicletei*
- *Scule multifunctionale cu maner articulat*

Sculele multifunctionale Union includ:

- *Chei hexagonale 2,2.5,3,4,5,6*
- *Chei profil torx marimile 25 si 30*
- *Cap de surubelita cu profil PH (inlocuibil)*
- *Scula de lant*
- *Chei pentru spite dimensiuni 3.5,3.3,4.9,4.2*
- *Holder pentru pinul de lant Shimano*



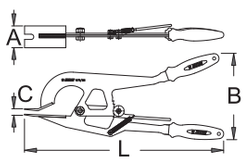
621983	135	4B	1	**161,34**

1678/2BI

Scula pentru cadrul bicicletei

- *Material: Otel Carbon de scule calit si revenit*
- *maner ergonomic rezistent bimaterial*
- *finisare:cromat in conformitate cu standardul EN12540*
- *Clestele pentru cadrul bicicletei este destinat schimbarii rapide a cauciucurilor la modelele mai vechi cu cadru metalic*
- *Manerele lungi permit generarea unei forte suficiente pentru eliberarea de pe geanta, pemitand un spatiu suficient pentru schimbarea cauciucurilor sau camerelor pentru roti fara a fi necesara demontarea completa a rotii. Datorita arcului de blocare scula va ramane in permanenta in pozitia dorita de Dumneavoastra, permitand utilizarea fara un alt ajutor.*





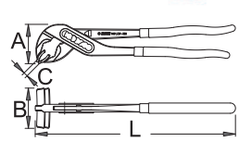
	L	A	B	CT				
620077	465	50	220	65	1405	1G	1	**467,53**

1601/2DP

Scula pentru demontarea cauciucului

- *material:crome vanadium*
- *tratat complet*
- *finisare:cromat in conformitate cu standardul EN12540*
- *Manere din doua straturi de plastic*
- *Clestele pentru demontarea cauciucurilor este destinat pentru o rapida demontare a cauciucului-in mod special cauciucurile care sunt deja lipite de janta.Folosind clestele,vom comprima cauciucul si acesta se va desprinde de geanta. Cu o asemenea strangere este asigurata schimbarea rapida a cauciucului.Forma bine gandita a clestilor asigura separarea cauciucului de geanta si nu vom ciupi camera la schimbarea cauciucului.Clestii sunt cromati si placati cu plastic pentru o strangere mai confortabila.*





	L	A	B	C				
617586	300	61	64	7	588	4B	10	**233,46**

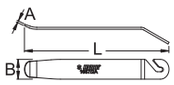


1657/2A

Set de doua leviere de cauciuc din metal

- *material:tabla*
- *finisarea suprafetei: acoperire cromare conform EN12540*
- *Leviere din metal pentru montat cauciucuri sunt folosite in cazul in care folosirea levierelor de plastic nu este posibila*
- *Leviere pentru cauciucuri UNIOR 1657/2A pot fi intepenite in spatele spitelor cu ajutorul agatatorului de la capat.*





	L	A	B				
623387	2	148	1,4	20	90	1E	1	45,92

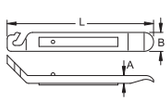


1657BLUE

Set de doua leviere de roti

- *Setul de doua leviere te ajuta la schimbarea usoara a cauciucurilor.*
- *Sunt executate din plastic dur si asigura lucrul fara deformarea gentii*
- *Utile pentru orice mecanic profesionist sau amator.*



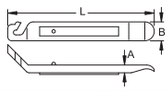


	L	B				
621984	2	113	22	14	1E	1	7,70

1657BLACK

Set de 2 leviere pentru anvelope, negru



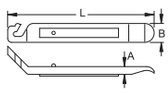


	L	B				
624142	2	113	22	14	1E	1	7,70

1657GREEN

Set de 2 leviere pentru anvelope, verde



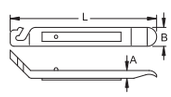


	L	B				
624143	2	113	22	14	1E	1	7,70

1657RED

Set de 2 leviere pentru anvelope, rosu





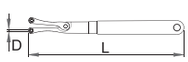
	L	B				
624144	2	113	22	14	1E	1	7,70

253/2DP

Cheie reglabila cu stifturi

- *material:crome vanadium*
- *Bolturi:brunate*
- *capul cheii este tratat in intregime*
- *acoperire cromare conform EN12540*
- *Manere din doua straturi de plastic*
- *.Bolturile de 2, 3 mm si 2, 8 mm sunt interschimbabile, distanta dintre ele este reglabila. Distanta cea mai mare intre bolturi este 50 mm in pozitie deschisa si 10 mm in pozitie inchisa.*





616294	123	4B	10	109,87

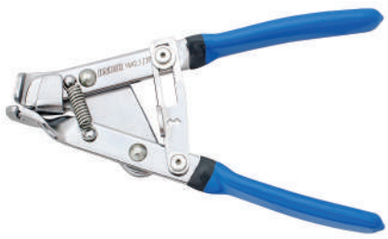
1642.1/2P

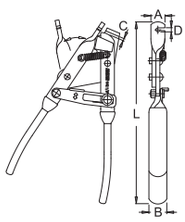
Cleste pentru cablu cu sistem de siguranta

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Manere din doua straturi de plastic*

Cum sa utilizati scula:

- *Functionarea acestuia consta in tensionarea cablului de frana si a schimbatorului de viteze.Este utilizat pentru pentru pozitionarea si intinderea cablului in locasul acestuia.Partea de siguranta a clestelui este activata cu o clapeta.Cablul se fixeaza pe cleste. Blocarea se realizeaza automat prin inchiderea manerelor .Siguranta suplimentara asigura o utilizare rapida si usoara.*





	L	A	B	C	D				
619719	185	14	18	2,3	4	246	4B	1	145,31



253.1/4A

Set de stifturi filetate pentru art. 253 A



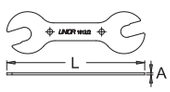
621020	7	1E	1	29,74

1612/2

Cheie ax roata

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Cheia pentru butuc este destinata atat amatorilor cat si profesionistilor.Forma acesteia din tabla cu varf si falca de strangere pentru dimensiunile uzuale. Aceasta cheie de butuc este folosita de orice biciclist pentru reparatii rapide si lucrari de intretinere curenta a bicicletei.*





UNIOR

			L	A				
615125	13x14	15x17	155	2,2	69	4A	10	**23,73**
615126	13x14	15x16	155	2,2	69	4A	10	**23,73**

1612PB

Set chei ax roata

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Cheia pentru butuc este destinata atat amatorilor cat si profesionistilor.Forma acesteia din tabla cu varf si falca de strangere pentru dimensiunile uzuale.Aceasta cheie de butuc este folosita de orice biciclist pentru reparatii rapide si lucrari de intretinere curenta a bicicletei.*



UNIOR

615120	2	13/14 x 15/17. 13/14 x 15/16	152	1P	1	**47,62**



1782

Set bits si capete tubulare

- *Setul Unior de bits si capete tubulare intre intretinerea bicicletelor contine ansamblul elementelor necesare pentru intretinerea curenta.*
- *Capete si bitsii mai mici sunt de 1/4" in timp ce cei mari sunt cu prindere 3/8"*
- *Pentru a permite utilizarea tuturor in orice marime de cheie cu clichet, setul include si doua adaptoare 1/4" - 3/8" si 3/8"-1/4"*
- *Toate piesele pot fi folosite pe o cheie cu clichet sau o cheie dinamometrica*
- *Ansamblul elementelor este perfect aranjat intr-un modul de spuma SOS*

Kitul contine

- *Bits TORX, marimi 25,27 si 30*
- *bits hexagonali, marimi 3,4,5,6,8,10*
- *Capete tubulare marimi 8,,10,11,12,13,14,15*
- *Adaptoare 1/4"-3/8" si 3/8"-1/4"*



UNIOR

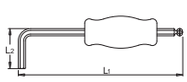
624040	80	1F	1	**375,85**

1780/3G

Cheie hexagonala cu cap sferic cu maner

- *material:tija-crom vanadium tratata complet*
- *maner-polipropilena*
- *lama cromata*
- *Manerul suplimentar de pe cheie permite o priza foarte buna*
- *Cu cheia, se poate obtine un cuplu de strangere mai mare fara sa se riste stricarea buloanelor*





UNIOR

623145	5	165	33	74	4A	1	**45,15**
623146	6	186	38	91	4A	1	**50,85**
623147	8	208	44	140	4A	1	**61,79**
623148	10	234	50	214	4A	1	**80,13**

1781/2HX

Cheie hexagonala cu trei picioare

- *Cheia este folosita la strangerea/desfacerea piulitelor cu profil hexagonal*
- *Manerul din plastic injectat ofera o priza confortabila si compactya, permitand astfel lucrull eficient, in timp ce materialul de calitate ofera o viata lunga de utilizare a sculei*



UNIOR

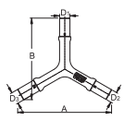
624027	4	5	6	122	16	106	50	4A	1	**47,77**

1781/2

Cheie tubulara cu trei picioare

- *Cheia Unior 1781/2P este utilizata cu trei capete pentru buloane si piulite de dimensiunile 8,9 si 10mm. Forma ergonomica si marimea ideala fac din aceasta scula un element indispensabil pentru toti mecanicii, atat amatori cat si profesionisti*





UNIOR

623295	8	9	10	108	94	12	13	14	100	4B	1	**75,66**

1781/2TX

Cheie torx cu trei picioare

- *Cheia este folosita la strangerea/desfacerea piulitelor cu profil torx*
- *Manerul din plastic injectat ofera o priza confortabila si compactya, permitand astfel lucrull eficient, in timp ce materialul de calitate ofera o viata lunga de utilizare a sculei*



UNIOR

	✱	✱	✱	A	B	C				
624029	10	15	25	122	16	106	50	4A	1	**49,77**

1781/2HXS

Cheie hexagonala cu trei, picioarecap sferic

- *Cheia este folosita la strangerea/desfacerea piulitelor cu profil hexagonal*
- *Manerul din plastic injectat ofera o priza confortabila si compactya, permitand astfel lucrull eficient, in timp ce materialul de calitate ofera o viata lunga de utilizare a sculei*
- *Versiunea 1781/2 HXS contine chei hexagoonale cu cap sferic care sunt deosebit de utile pentru lucrul in unghi*



UNIOR

	⬢	⬢	⬢	A	B	C				
624030	4	5	6	122	16	106	50	4A	1	**75,20**

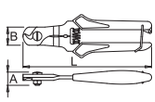
584/2POLLY

Cleste de taiat cabluri de otel

- *material:compozitie speciala pentru calire revenire*
- *tratament termic complet*
- *finisare:cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *Pentru taierea cablurilor de frana de diametre pana la 1.65mm*
- *Pentru taierea cablurilor dispozitivului de deraiere cu un diametru pana la 1.25mm*







UNIOR

L	A	B					
620591	180	17.5	25	224	4B	1	**188,31**

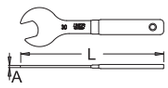


1617/2DP

Cheie simpla pentru ax roata

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Manere din doua straturi de plastic*
- *Designul si dimensiunile sculelor noastre se adapteaza permanent la noilor standarde si noilor modele de biciclete.Cheia fixa simpla are o remarcabila rezistenta, duritate si fixare precisa a ghidonului si la reglarea jocului in rulmenti.Cheia asigura o insurubare si desurubare usoara a piulitelor ghidonului.Manerul ergonomic asigura o buna functionalitate.Cheia se aseaza perfect in mana facand munca usoara si confortabila.*





UNIOR

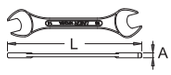
	⬌	L	A				
615518	13	200	2	86	4A	10	**39,60**
615519	14	200	2	82	4A	10	**39,60**
615520	15	200	2	84	4A	10	**39,60**
615521	16	200	2	81	4A	10	**39,60**
615522	17	200	2	80	4A	10	**39,60**
615523	18	200	2	97	4A	10	**39,60**
615524	19	200	2	81	4A	10	**39,60**
615525	20	200	2	96	4A	10	**39,60**
617840	22	220	3	134	4A	10	**39,76**
621918	23	220	3	132	4A	10	**39,76**
617841	24	220	3	130	4A	10	**39,76**
619554	27	240	3	151	4A	10	**40,22**
624134	28	240	3	154	4A	1	**41,30**
615367	30	275	4	293	4A	10	**41,30**
615368	32	275	4	286	4A	10	**41,30**
615369	34	275	4	289	4A	10	**41,30**
615370	36	275	4	279	4A	10	**41,30**
615371	40	275	4	275	4A	10	**41,30**
615456	42	275	4	277	4A	10	**41,30**
615457	44	275	4	270	4A	10	**41,30**
623257	1/2"	200	2	85	4A	1	**39,76**
623258	9/16"	200	2	85	4A	1	**39,76**

1612/2A

Cheie ax roata

- *material:crome vanadium*
- *forjata, calire si revenire totala*
- *acoperire cromare in conformitate cu EN12540*
- *Confectionata din otel crom vanadiu, aceasta cheie combina extrema rezistenta, duritate si fiabilitate. Forma si designul scurt permit lucrul in locuri dificile.*





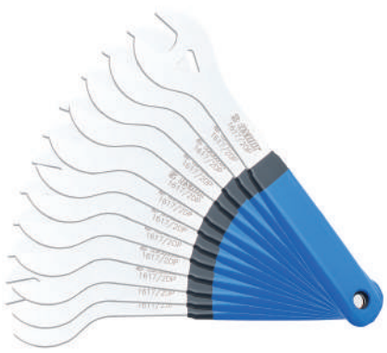
UNIOR

	⬌	L	A				
615373	8 x 9	109	4,1	21	4A	10	**16,18**
615374	10 x 11	125	4,9	32	4A	10	**16,49**
615375	12 x 13	139	5,3	46	4A	10	**23,11**
615376	14 x 15	154	5,8	69	4A	10	**24,66**



1617/2DPPB

Set de chei conice



UNIOR

624042	13 - 28 / 12	1F	1	**477,70**

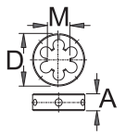
1617/2DP (13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 28)

1696.1

Filera

- *Material: otel aliat*
- *a se folosi cu scala art 1696*





UNIOR

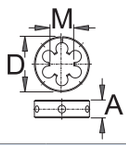
	M	D	A					
616075	1" x 24 tpi	55	15	162	1E	1	**615,01**

1696.2

Filiera

- *Material: otel aliat*
- *a se folosi cu scala art 1696*





UNIOR

	M	D	A					
617898	1.1/8" x 26 tpi	55	16	155	1E	1	**615,01**

1694.1

Alezor pentru 1694

- *Material: otel aliat*





UNIOR

	D	A	B					
617824	1.1/8"	39	44,1	295	1E	1	**685,58**

1609.1/2

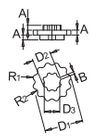
Cheie pentru boltul de plastic Shimano

- *Magnetul puternic de pe spatele cheii ii permite sa fie asezat in locul dorit.*
- *Scula poate di folosita manual sau folosind o cheie cu deschiderea de 13 mm*

Cum sa utilizati scula:

- *Scula este destinata schimbarii si instalarii boltului de plastic pentru Shimano care este folosit in axul Hollowtech II*





UNIOR

	A	B	D1	D2	D3	R1	R1				
623120	4	1,85	32	15,4	13	2,3	2,5	33	1E	1	**57,94**



1697.1

Filiere de schimb pemtru 1697

- *Material: otel aliat*
- *filiere stanga si dreapta sunt disponibile in setul pentru articolul 1697*





UNIOR

		A				
617310	1.3/8 x 24 tpi (BSA)	18	117	1E	1	**642,90**

1698.1

Tarozi de schimb pentru 1698

- *Material: otel aliat*
- *Tarod stanga si dreapta disponibili in set pentru art 1698*





UNIOR

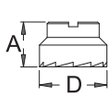
	M	A				
617590	36 x 24 tpi (ITAL)	18	122	1E	1	**655,38**

1699.1

Scula de strunjit pentru 1699

- *Material: otel aliat*





UNIOR

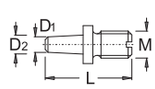
	A	D				
617592	29	44	197	1E	1	**422,69**

1640.1/4

Inlocuirea boltului pentru clestele de lant

- *Material: Otel Carbon de scule calit si revenit*
- *Acoperire prin brunare conform DIN 50938*
- *Capetele clestelui tratate prin inductie*





UNIOR

	D1	D2	M	L				
605956	2,8	3,8	M 5	16	7	1E	2	**11,56**

253.1/4A

Set de stifturi filetate pentru art. 253 A



UNIOR

621020	7		1E	1	**29,74**

1751.1/7T

Set de 5 arcuri de rezerva pentru 1751/2T

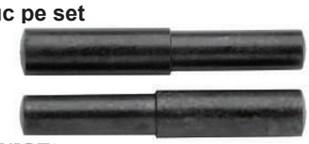


UNIOR

623300	1		1V	1	**38,22**

1647.1/4A

Bolt de schimb pentru scula pentru montare demontare lant, 2 buc pe set



UNIOR

	D1	D2	L					
621734	3,4	4	24	2	10	1E	1	8,01

1693.3

Suport SOS pentru 1693

- *Noul modul de aranjare scule 1693.3 este fabricat din tabla de otel subtire si rezistenta, cu doua sine si un modul de spuma SOS*
- *Modulul de spuma este intersanjabil, cod 1693.6*
- *Modulul de aranjare se potriveste in noua generatie de suport 1693*
- *Verificati compatibilitatea cu distribuitorul local.*



UNIOR

623820	822	1K	1	109,10

1693.11

Falci de schimb de cauciuc pentru 1693.1



	A	B	C				
621961	96,5	66	35	64	1E	1	42,38

1693.12

Accesorii pentru 1693.1

- *Inocuirea arcului cu surub permite modificarea deschiderii falcilor si a fortei de strangere.Surubul poate fi actionat cu mana fara a folosi o cheie.*



UNIOR

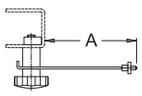
623205	150	1V	1	65,49

1688.2

Etrier de frana pentru 1688

- *Piesa de schimb pentru 1688 stand de centrare roata*





UNIOR

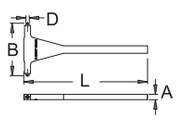
	A				
621616	96	74	1E	1	85,83

1689.1

Brat compas de grosime pentru art. 1689

- *Art 1689 stand profesional de centrare a rotilor poate fi usor scos dupa utilizare.Bratul de calibrare al acestuia asigura operatia de calibrare a bratului spate in pozitia sa centrala.*





UNIOR

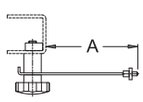
	D	B	L	A				
621615	8	139,5	330	14	1159	1E	1	400,96

1689.2

Compas grosime frane pentru 1689

- *Aceasta permite verificarea reala a discurilor de frana*
- *Etrierul de frana este folosit la art 1689 stand profesional de centrare roata.*





UNIOR

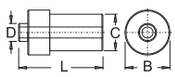
	A				
622603	61	45	1E	1	90,61

1689.3

Adaptor pentru ax de roti de 20 mm

- *Adaptor pentru reglarea rotii cu 20 mm ax butuc*





UNIOR

		C	D	B	L				
623004	12	2	11,9	9,8	17	46	46	1E	1	74,74
623005	15	2	14,9	9,8	20	46	46	1E	1	77,05
621617	20	2	19,9	9,8	24,5	46	46	1E	1	83,83

1689.5

Cap de schimb pentru etrier

- *Cap de schimb din plastic pentru etriere 1688.2, 1689.2, 1689.4*



UNIOR

623256	1	1V	1	7,86

1689.6

Adaptor Cannondale Lefty pentru stand de centrare

- *Adaptorul Canondale Lefty se foloseste pentru centrarea rotilor din fata Cannondale lefty care, din cauza formei si dimensiunilor asimetrice, nu pot fi corect centrate utilizand adaptoarele de stand de centrare standard*



UNIOR

623450	80	1V	1	101,40



1695MB1

Kit de restaurare filet

- *kit pentru repararea prin insertie a filetelor de montaj pentru pedala*
- *nu mai sunt probleme cu filetele deteriorate din manivela pedalei. Cu ajutorul acestui Kit de restaurare poti repara filetele stricate de la manivelele de pedale al dumneavoastra.*
- *prima data folositi alezorul de curatare apoi creati cu tarodul un filet majorat de 5/8"x24TPI in bratele pedalierului.*
- *in final restaurati filetul original prin insertare.*

Kitul include:
- *tarod si alezor dreapta / stanga 5/8"x24TPI*
- *10 insertii filetate pentru manivela stanga a pedalierului*
- *10 insertii filetate pentru manivela dreapta a pedalierului.*
- *kit-ul este pus intr-o cutie metalica avand in interior suport SOS de spuma poliuretanica cu locase pentru fiecare piesa*



UNIOR

626979	5	**967,58**

1695/4BI, **1695.1AL** 5/8" x 24 TPI, **1695.1AR** 5/8" x 24 TPI
1695.4A 5/8L x 24, **1695.3A** 5/8 x 24, **981K 3/8"** (321 x 198 x 54)

190.8/2BI

Antrenor de tubulare Pro

- *material: otel special pentru scule*
- *corp din otel forjat*
- *tratament termic calire/revenire*
- *finisarea:cromat conform standard EN 12540*
- *maner ergonomic bicomponent in versiunea de utilizare intensa*
- *pro Socket Handle este nu numai o alta scula din programul nostru general de scule. proiectat special pentru programul Scule de bicicleta.Este usor compact extrem de rezistent si dispune de manerul bicomponent ergonomic.*
- *proiectat sa functioneze impreuna cu capetele tubulare UNIOR cu blocaj,tubulare plate pentru suspensii si multe altele*



UNIOR

		L	A	B				
627084	1/2"	250	23,5	36	275	4B	10	**52,24**

1697.2/4

Adaptor pentru tarozi BSA

- *adaptorul este compatibil cu tarozii BSA 1697.1 si manerul magnetic 1695/4BI pentru alezare si filetare*
- *crestatura din capul adaptorului usureaza asamblarea sculelor impreuna cu manerul 1695/4BI*



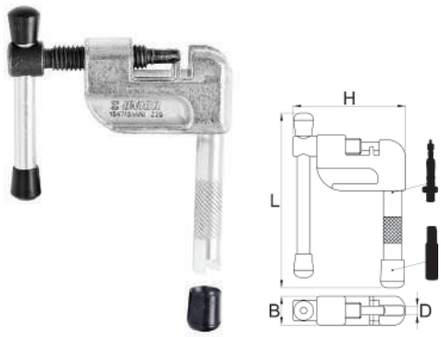
UNIOR

	L	D				
626467	75	32	240	1V	1	**88,14**

1647/5MINI

Mini menghina de lant +

- *menghina noastra de lant MINI + este scula de lant idealapentru a fi luata cu tine la drum cu bicicleta.*
- *indiferent de tipul de bicicleta pe care o folosesti,aceasta scula de lant poate acoperi orice nevoie de la 5 la 11 viteze si functioneaza ca cele din atelierele profesionale.*
- *in ciuda design-ului minimalist ea este mult mai mult.*



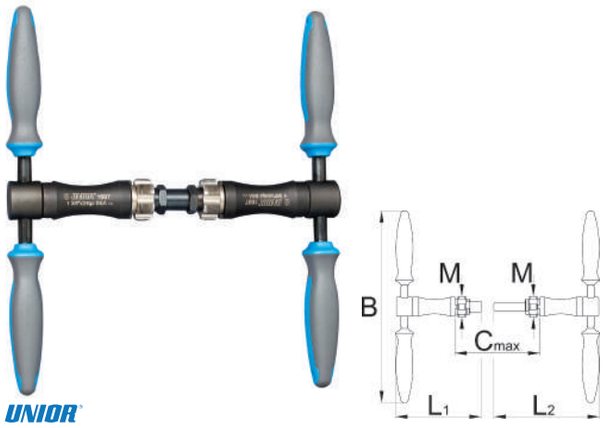
UNIOR

	D	B	L	H				
627100	6,8	11	67	43	-	4A	10	**63,95**

1697.3

Set de adaptoare si tarozi BSA

- *set format din 1697.2/4 si manerul magnetic 1695/4BI*



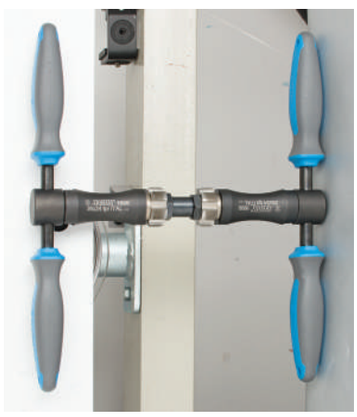
UNIOR

	M	B	L1	L2					
626487	1.3/8" x 24 tpi	320	142.5	176	100	2020	1F	1	**819,03**

1698.3

Set adaptoare si tarozi ITAL

- *set format din tarozi ITAL 1698.1 ,adaptorul 1698.2/4 si manerele magnetice 1695/4BI*



UNIOR

		A			
626486					**831,51**



1698.2/4

Adaptor pentru tarozi ITAL

• adaptorul este compatibil cu tarozii ITAL 1698.1 si manerul magnetic 1695/4BI pentru alezare si filetare
• crestatura din capul adaptorului usureaza asamblarea sculelor impreuna cu manerul 1695/4BI





UNIOR

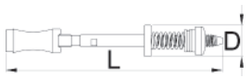
	L	D				
626466	75	32	243	1V	1	88,14

1699.2/4

Dispozitiv de alezat cadru in partea inferioara BSA&ITAL

• dispozitivul pentru cadru este compatibil cu alezorul inferior 1699.1 si manerul magnetic pentru alezoare si tarozi 1695/4BI
• crestatura din capul adaptorului asigura asamblarea rapida si usoara cu manerul pentru alezoare si tarozi 1694/4BI





UNIOR

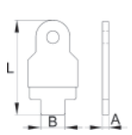
	L	D				
626468	297	42	884	1V	1	201,71

1699.5/4P

Cheie pentru instrumentul de alezare a ghidajelor inferioare BSA & ITAL

• cheia este utilizată pentru a aleza partea inferioară a cadrului şi este compatibil cu alezoarele BSA & Ital.
• manerul cheii este mulat in plastic pentru confort





UNIOR

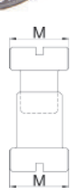
	L	B	t			
626471	60	15,7	4	46	1V	8,63

1699.4ITA

Suport pentru instrumente orientate spre partea inferioara ITAL

• adaptorul este compatibil cu tarozii BSA 1697.1 si manerele magnetice 1695/4BI





UNIOR

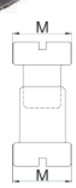
	M				
626469	36 x 24 tpi	252	1V	1	113,88

1699.4BSA

Suport pentru instrumente orientate spre partea inferioara BSA

• adaptorul este compatibil cu tarozii ITAL 1698.1 si manerele magnetice 1695/4BI





UNIOR

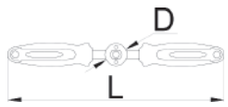
	M1	M2			
626470	13/8" x 24	13/8" x 24	240	1V	110,64

1695.1/4BI

Maner pentru alezoare si tarozi

• Mânerul este în formă ergonomică şi făcut pentru sarcini grele
două materiale componente.
Particularitatea sa este dintele magnetic, care permite o asamblare uşoară a
instrumentului şi, în acelaşi timp, vă permite să utilizaţi un singur mâner
pe mai multe
Instrumente.
• Mânerul este compatibil cu:
• Instrument de alezare a ghidajului de jos BSA 1697
• Instrument de alezare a ghidajului de jos ITAL 1698
• Suport pentru ghidajele inferioare BSA & ITAL 1699
• Instrument de îndreptare tub cap 1694
• Set de adaptoare şi tarozi BSA 1697.3
• Adaptor pentru tarod BSA 1697.2/4
• Set de adaptoare şi tarozi ITAL 1698.3
• Adaptor pentru tarod ITAL 1698.2/4
• Cadru de scule cu suport de jos BSA & ITAL 1699.2/4
• Cadru pentru scule cu tub cap 1694.2/4.





UNIOR

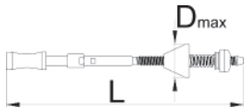
	L	D				
626464	320	33	570	1V	1	95,54

1694.2/4

Dispozitiv de alezat cadrul

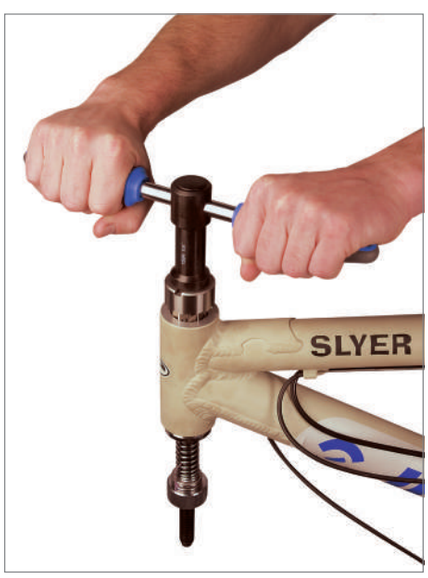
• dispozitivul este compatibil cu alezorul 1694.1 si manerele magnetice pt alezoare si tarozi 1695/4BI.Crestaturile din capul adaptorului asigura o asamblare rapida si usoara a sculei impreuna cu manerul pentru alezoare si tarozi 1694/4BI





UNIOR

	L	DT				
626463	427	60	360	1V	1	285,39

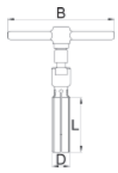


1758/4

Hub Genie

• Hub Genie este o soluţie unică pentru îndepărtarea lagarelor de rulment din butuci, sau convertirea lor la standarde diferite. Datorită mecanismului de extindere, care ia lagarul uniform din interior, chiar şi cel mai încăpăţânat lagar sunt uşor de tras afara. Comparativ cu modul tradiţional de a scoate lagarul butucului acest instrumentnu distruge tubul sau lagarul. Pur şi simplu geniu.
• Instrumentul este disponibil în două versiuni; unul mai mic, care acoperă lagare de 12 mm &15mm prin axe şi o versiune mai mare, care funcţionează cu 20 mm prin lagarele osie. Ambele versiuni au manere de plastic moi pentru ergonomie





UNIOR

	D	L	B			
627271	20	52	102	4A	10	**132,83**
627272	12 & 15	45	102	4A	10	**114,96**

1657STR

Set de leviere pentru anvelope, 27 perechi



UNIOR

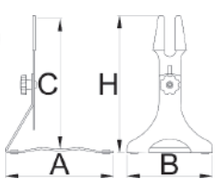
625044	27	**208,34**
9 x **1657BLUE** (albastru), 6 x **1657BLACK** (negru), 6 x **1657GREEN** (verde), 6 x **1657RED** (rosu)		

1693H

Stativ de garare reglabil

• nu vă deranjaţi cu plasarea bicicletei, lăsaţi-o în garaj, puneţi-o pe podeaua magazinului sau afişează în sufragerie. Orice bicicletă, oriunde. Suportul de pardoseală reglabil al Unior este potrivit pentru toate, de la biciclete pentru copii la monstrii Big 29 + . Partea de sus este reglabila în înălţime (pentru 123 mm) şi unghiul, în timp ce stratul de cauciuc vă protejează cadrul împotriva zgârieturilor. Canalul este suficient de larg pentru a potrivi toate dimensiunile populare ale punţii spate.
• standul este confectionat din otel inoxidabil si ofera o mare stabilitate, indiferent de greutatea bicicletei. Baza standului este dotata cu insertii de cauciuc de inalta calitate care impiedica miscarea si protectia suprafaţa podelei. Finisaj negru garantează compatibil cu orice stil de magazin, birou sau acasă





UNIOR

	A	B								
626542	252	200	267	390	284	407	1832	1V	1	**214,04**

1600PROKIT

Set de scule de bicicleta 1600PROKIT in valiza

• Cazul setului Pro Kit este lumea reală proiectată şi testată pentru mecanica profesională pe cele mai dure curse din lume.
• Bine gândit, panourile de scule extrem de durabile organizează şi ţin sculele în locurile lor. Buzunarele sunt proiectate pe dimensiunea sculelor noastre. De asemenea, dispune de câteva buzunare suplimentare lăsându-vă spatiu pentru a personaliza Kit-ul.
• După proiectarea carcasei setului pentru Pro Kit, ne-am aşezat cu echipa noastra de mecanici şi cu atenţie am selectat un set de scule pe care mecanicii exigenti de biciclete o vor aprecia. Am ales 48 de repere din sculele noastre, care sunt o potrivire perfecta pentru un set portabil, magazin, acasă sau mecanica de echipa.
Numărul de piese în set: 49



UNIOR

627042	49	**4045,54**
110/1 (6 x 7, 8 x 9, 10 x 11, 13 x 15, 17 x 19) ,**190.1/1ABI** (1/2") ,**183/2** (8 x 10), **193HX** (2, 2.5, 3, 4, 5, 6, 8, 10) ,**193TX** (TX 10, TX 25), **220/3** (1.5, 2, 2.5, 3) , **220/3S** (4, 5), **250/1** (200), 271 (0 - 150), **406/1BI** (160), **461/1BI** 160, **536PLUS/1DP** (140 x 12 - 25) ,**556A** 160, **584/2POLLY** 180 ,**615TBI** PH 1 x 80, **605TBI** (0.5 x 3.0 x 80, 1.0 x 5.5 x 125), **639C** 165, 710P 3, **761HS** 150 , **819A** 45, **1342** 160 ,**1609/2BI** , **1630/2P** 3.3, **1644/2**, **1666/2DP** 2,2, **1670/2BI** 11/12, **1647/2ABI** ,**1670.7/4**, **1670.9/4**, **1720/2DP**, **1750/2BI , 970PROKIT**		

970PROKIT

Tool case Prokit - 970PROKIT

• setul de scule este conceput special pentru unelte de bicicletă; este fabricat din plastic rezistent şi este impermeabil şi etans la praf.
• Dispune de un panou de agatare cc cârlige care se agata la orificiile de pe partea din faţă a carcasei, permiţându-vă să ai toate sculele la îndemână. Panoul are 9 buzunare, care sunt concepute pentru a transporta totul de la cleşti pana la chei fixe.
• Clapetele din capac pot fi închise strâns cu curelele Velcro; Când este închis, ei asigură, de asemenea, mentinerea sculelor la locul lor. Clapetele deschise şi partea interioară a capacului vă oferă 35 de buzunare individuale pentru scule. Cele mai mari buzunare pot lua chia imbuss cu maner in T până la dimensiunea 10 şi un buzunar mic special poate ţine în siguranţă cheia imbuss in L pana la dimensiunea 1,5mm sau instrumente similare mici, astfel încât nimic niciodată nu se va pierde
Avantaje:
• Buzunarele sunt cusute împreună cu filet de nailon durabil
• Impermeabil şi etans la praf în conformitate cu certificatul IP67
• Garnitură etanşă în jurul capacului
• Supapă de eliberare automată a presiunii
• Uşor de deschis încuietori duble de aruncare
• Mâner de prindere moale cu sarcină testată
• Orificii pentru curea de umăr (curea neinclusă în Kit)
• Material gros de carcasa
• Pini de nailon, fără coroziune panou de agatare cu 9 buzunare, concepute pentru a transporta totul, de la cleşte pana la chei fixe
• Separator de aluminiu în partea de jos a carcasei instrumentului pentru a vă păstra instrumentele organizate
• Flapsurile se închid perfect în capacul carcasei setului
• Capacul poate transporta chei inbuss cu maner in T până la dimensiunea 10
• Buzunare speciale de siguranţă pentru a deţine scule mici
• 44 buzunare toate împreună + depozitare sub palet



627041	**1229,24**

1600RN

Pro Road Set

• trusă de scule pentruciclistul pasionat care îi place să-şi păstreze bicicleta în ordine perfectă în fiecare zi! La uneltele sunt uşor de găsit în propriile lor locase di suporturile SOS din spuma poliuretanica taiate cu laser înconjurat de o durabila cutie de călătorie şi depozitare termoplastică.
Pro Road Kit include cele mai comune instrumente pentru a menţine bicicleta în formă de top:
Presa de lant cu surub (utilizabila cu toate tipurile de lant inclusiv pt schimbatorul Campagnolo cu 11 viteze)
Indicator de uzura lantului
caseta de stergere si instrument de instalare
cleste de taiat sarma de otel
cleste cu cioc plat lung
cheie cu utilizare universala
Set doua leviere pentru anvelope
Set de 9 chei hexagonale cu cap sferic.Setul include marimile 1,5 , 2 ,2,5 ,3 , 4 , 5 ,6 ,8 , 10.
Surubelnita cu cap PH
Ruleta 2 m

Numar de piese in set:19



626543	19	**1356,53**

1631/2 (3,3 x 3,45 x 3,7 x 4,0 x 4,4 x 5,0), **1644/2**, **1647/2ABI**, **1657BLUE**, **1670.8/2BI**, **1670/2BI** 11/12, **220/3SLPH** 1.5 - 10 / 9 pcs, **472/1BI** 160, **584/2POLLY** 180, **615TBI** PH 2 x 100, 710P 2, **981PB4** 393 x 331 x 95



SCULE PENTRU ELECTRONISTI

Precizie

Sculele pentru electronisti se disting prin acuratetea de fabricatie si functionalitatea excelenta, care garanteaza o adaptare completa fata de obiectul de lucru, chiar in locuri mai greu accesibile.

Eficacitate

Sculele au mai multe functii, cum ar fi taierea, inlaturarea si sertizarea firelor, ceea ce face ca lucrul sa fie mai rapid si fara efort fizic suplimentar

UNIOR EGA Master TIVOLY



Clesti	596
Surubelnite	598
Seturi de scule electronisti	600
Seturi servisare SmartPhone	602
Pensete	603
Scule de perforat	603



Durabilitate

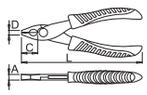
Materialele de calitate previn uzura rapida a sculei, elementele de siguranta fac posibile reparatiile fara risc de ranire, iar forma ergonomica asigura folosirea sigura, confortabila si simpla.

406/4E

Cleste combinat pentru electronisti

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *manere bimaterial pentru conditii grele*





UNIOR

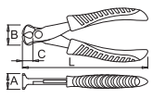
	L	B	C	A				
620069	120	13.6	15.8	8.2	90	4E	10	86,78

455/4E

Cleste cu tais fata pentru electronisti

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *manere bimaterial pentru conditii grele*





UNIOR

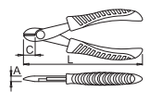
	L	B	C	A				
620071	110	16.6	8.1	13.2	94	4E	10	105,66

461/4E

Cleste tais lateral pentru electronisti

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *manere bimaterial pentru conditii grele*





UNIOR

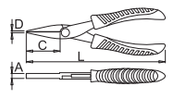
	L	B	A	C			
620072	115	13	8.2	13.5	95	4B	10	84,30

472/4E

Cleste cu varfuri plate pentru electronisti

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *partea de prindere dintata*
- *manere bimaterial pentru conditii grele*





UNIOR

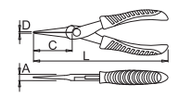
	L	C	A				
620070	135	32.5	8.2	105	4E	10	84,30

506/4E

Cleste cu varfuri semirotunde drepte pentru electronisti

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *manere bimaterial pentru conditii grele*





UNIOR

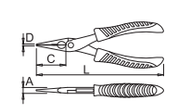
	L	B	D	A	C				
620073	140	12.6	3.2	2.4	41.8	99	4B	10	86,78

508/4E

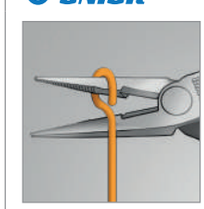
Cleste cu varfuri semirotunde pentru electronisti

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *partea de prindere dintata*
- *manere bimaterial pentru conditii grele*





UNIOR





	L	B	D	A	C				
620074	135	12.6	3.2	2.4	32.5	90	4B	10	84,30

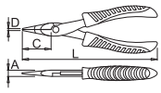


512/4E

Cleste cu varfuri semirotunde pentru electronisti

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *manere bimaterial pentru conditii grele*





UNIOR

	L	B	D	A				
620075	140	12.6	3.2	8.2	97	4B	10	**86,78**

64730

Cleste combinat ESD cu maner bimaterial

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *manere bimaterial cu protectie ESD*



EGA Master ART IN INNOVATION

	L	A	B	C		
64730	120	25	22	8	75	**243,64**

64731

Cleste cu varfuri drepte ESD cu maner bimaterial

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *manere bimaterial cu protectie ESD*



EGA Master ART IN INNOVATION

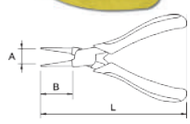
	L	A	B	C		
64731	130	38	36	-	90	**219,19**

64732

Cleste cu varfuri rotunde ESD cu maner bimaterial

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *manere bimaterial cu protectie ESD*





EGA Master ART IN INNOVATION

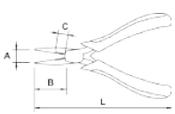
	L	A	B	C		
64732	130	47	27	-	75	**238,09**

64733

Cleste cu varfuri semirotunde drepte ESD cu maner bimaterial (pentru telefonie)

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *manere bimaterial cu protectie ESD*





EGA Master ART IN INNOVATION

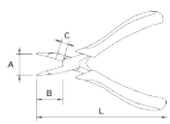
	L	A	B	C		
64733	135	33	40	9	90	**243,64**

64734

Cleste cu varfuri semirotunde indoite ESD cu maner bimaterial (pentru telefonie)

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *manere bimaterial cu protectie ESD*





EGA Master ART IN INNOVATION

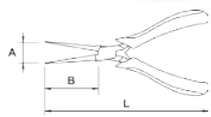
	L	A	B	C		
64734	135	31	36	9	90	**259,32**

64735

Cleste cu varfuri semirotunde ascutite ESD cu maner bimaterial

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *manere bimaterial cu protectie ESD*





EGA Master ART IN INNOVATION

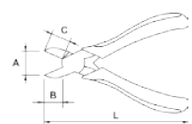
	L	A	B	C		
64735	155	70	47	-	85	**235,31**

64736

Cleste cu tais lateral ESD cu maner bimaterial

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *manere bimaterial cu protectie ESD*





EGA Master ART IN INNOVATION

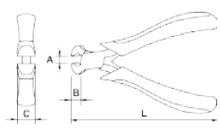
	L	A	B	C		
64736	120	18	14	13	75	**243,64**

64737

Cleste cu tais fata ESD cu maner bimaterial

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *manere bimaterial cu protectie ESD*





EGA Master ART IN INNOVATION

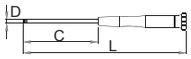
	L	A	B	C		
64737	110	10	9	18	90	**246,33**

619E

Surubelnita electronica cu profil TS

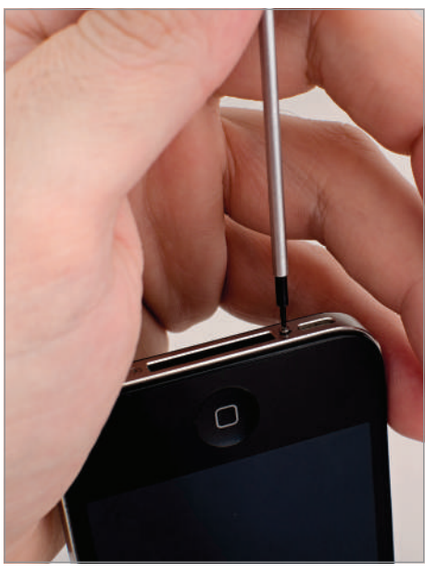
- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*
- *Pentru suruburi pentalobe*
- *Folosire: pentru modelele mai noi da Apple iPhone*





UNIOR

		C	L	D				
623364	TS 1	60	153	2,5	13	4A	1	**28,60**

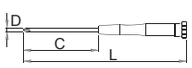


615E

Surubelnite cu profil Phillps pentru electronisti

- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*





UNIOR

		C	L	D				
608304	PH 000	60	153	2.5	12	4A	10	**26,03**
608305	PH 00	60	153	2.5	12	4A	10	**22,23**
608306	PH 0	60	153	3	14	4A	10	**15,62**
608307	PH 1	80	173	4.5	22	4A	10	**16,15**

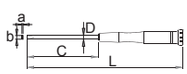


605E

Surubelnite varf plat pentru electronisti

- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*





UNIOR

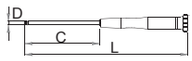
		C	L	D				
608296	0.25x1.2	60	153	2.5	10	4A	10	**19,51**
608297	0.23x1.5	60	153	2.5	11	4A	10	**19,12**
608298	0.3x1.8	60	153	2.5	12	4A	10	**18,83**
608299	0.4x2.5	75	168	2.5	12	4A	10	**17,56**
608300	0.5x3.0	100	193	3	13	4A	10	**16,15**
608301	0.5x3.0	150	243	3	18	4A	10	**17,76**
608302	0.8x4.0	100	193	4	23	4A	10	**18,19**
608303	0.8x4.0	150	243	4	28	4A	10	**18,92**

621E

Surubelnite cu profil TORX pentru electronisti

- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*





UNIOR

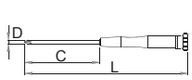
		C	L	D				
604546	TX 4	60	153	3	12	4A	10	**19,70**
604547	TX 5	60	153	3	12	4A	10	**19,70**
608310	TX 6	60	153	3	13	4A	10	**19,70**
608311	TX 7	60	153	3	14	4A	10	**19,70**
608312	TX 8	60	153	3	12	4A	10	**19,70**
608313	TX 9	60	153	3	15	4A	10	**19,94**
608314	TX 10	60	153	3	14	4A	10	**19,94**
608315	TX 15	60	153	3.5	17	4A	10	**19,94**
608316	TX 20	80	173	4	19	4A	10	**21,06**

625E

Surubelnite cu profil Pozidrive pentru electronisti

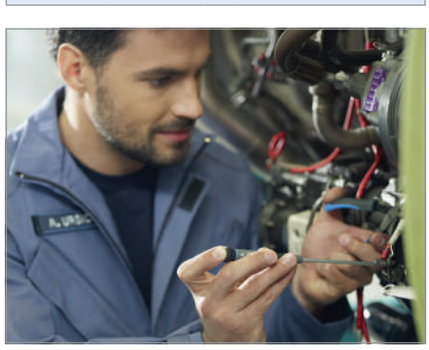
- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*





UNIOR

		C	L	D				
608308	PZ 0	60	153	3	13	4A	10	**16,30**
608309	PZ 1	80	173	4.5	26	4A	10	**16,88**

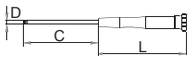


Hex MM PSD™

Surubelnite cu profil hexagonal, cap rotativ

- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*





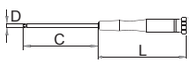
	D	C	L	
92407	0,7	**64**	104	**10,75**
92409	0,9	**64**	104	**10,75**
92413	1,3	**64**	104	**12,98**
92415	1,5	**64**	104	**12,72**
92420	2,0	**64**	104	**11,54**
92425	2,5	**64**	104	**10,75**
92430	3,0	**64**	104	**10,75**
92440	4,0	**64**	104	**10,75**

Ball-Hex MM PSD™

Surubelnite cu profil hexagonal varf sferic, cap rotativ

- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*





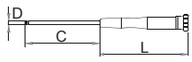
	D	C	L	
92613	1,27	**64**	104	**10,75**
92615	1,5	**64**	104	**10,75**
92620	2,0	**64**	104	**10,75**
92625	2,5	**64**	104	**10,75**
92630	3,0	**64**	104	**10,75**
92640	4,0	**64**	104	**10,75**

Slotted MM PSD™

Surubelnite cu profil lat, cap rotativ

- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*





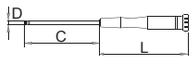
	D	C	L	
92008	0,8	64	104	**10,75**
92010	1,0	64	104	**10,75**
92012	1,2	64	104	**10,75**
92018	1,8	64	104	**10,75**
92020	2,0	64	104	**10,75**
92025	2,5	64	104	**10,75**
92035	3,5	64	104	**10,75**
92040	4,0	64	104	**10,75**

PoziDriv PSD™

Surubelnite cu profil Pozidriv, cap rotativ

- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*





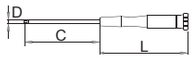
	D	C	L	
92100	PZ 0	64	104	**10,75**
92101	PZ 1	64	104	**10,75**

Phillips PSD™

Surubelnite cu profil Phillips, cap rotativ

- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*





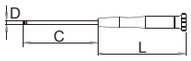
	D	C	L	
92108	PH 000	64	104	**10,75**
92109	PH 00	64	104	**10,75**
92110	PH 0	64	104	**10,75**
92111	PH 1	64	104	**10,75**

TORX® PSD™

Surubelnite cu profil TORX, cap rotativ

- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*

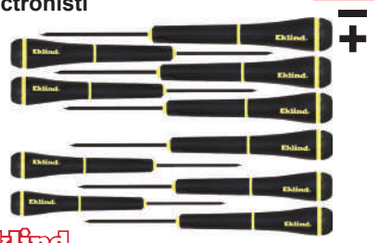




	D	C	L	
92203	T3	64	104	**10,75**
92204	T4	64	104	**10,75**
92205	T5	64	104	**10,75**
92206	T6	64	104	**10,75**
92207	T7	64	104	**10,75**
92208	T8	64	104	**10,75**
92209	T9	64	104	**10,75**
92210	T10	64	104	**10,75**
92215	T15	64	104	**10,75**
92220	T20	64	104	**10,75**

92199

Set surubelnite pentru electronisti



92199 — 10 piese — **91,02**

SL PSD™: 0,7; 0,9; 1,0; 1,3; 1,5; 2,0; 2,5; 3,0; 4,0

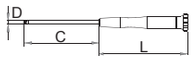
PH PSD™: PH 000; PH 00; PH 0; PH 1

Hex inch PSD™

Surubelnite cu profil hexagonal, cap rotativ

- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*





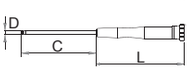
	D	C	L	
92301	.028"	64	104	**10,75**
92302	.035"	64	104	**10,75**
92303	.050"	64	104	**10,75**
92304	1/16"	64	104	**10,75**
92305	5/64"	64	104	**10,75**
92306	3/32"	64	104	**10,75**
92307	7/34"	64	104	**10,75**
92308	1/8"	64	104	**10,75**
92309	9/64"	64	104	**10,75**
92310	5/32"	64	104	**10,75**

Ball-Hex inch PSD™

Surubelnite cu profil hexagonal varf sferic, cap rotativ

- *material: tija-crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *maner cu cap rotitor*





	D	C	L	
92502	.035"	64	104	**10,75**
92503	.050"	64	104	**10,75**
92504	1/16"	64	104	**10,75**
92505	5/64"	64	104	**10,75**
92506	3/32"	64	104	**10,75**
92507	7/34"	64	104	**10,75**
92508	1/8"	64	104	**10,75**
92509	9/64"	64	104	**10,75**
92510	5/32"	64	104	**10,75**

92200

Set surubelnite pentru electronisti

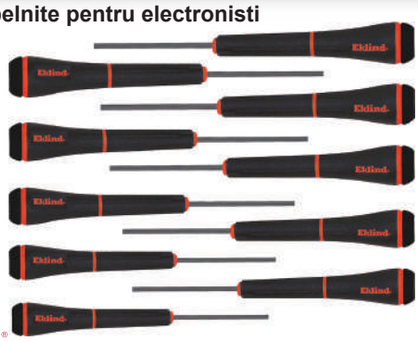


92200 — 10 piese — **91,02**

TORX PSD™: T3; T4; T5; T6; T7; T8; T9; T10; 15; T20

92300

Set surubelnite pentru electronisti

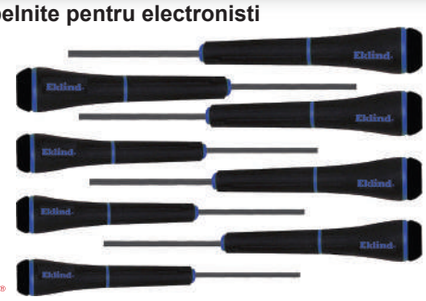


92300	10 piese	91,02

HEX PSD™: .028; .035; .050; 1/16"; 5/65"; 3/32"; 7/64"; 1/8"; 9/64"; 5/32

92400

Set surubelnite pentru electronisti



92400	8 piese	72,66

HEX PSD™: 0,7; 0,9; 1,3; 1,5; 2,0; 2,5; 3,0; 4,0

92500

Set surubelnite pentru electronisti



92500	8 piese	72,66

BALL-HEX PSD™: .050; 1/16"; 5/65"; 3/32""; 7/64""; 1/8"; 9/64"; 5/32"

92600

Set surubelnite pentru electronisti



92600	8 piese	54,56

HEX PSD™: 0,7; 0,9; 1,3; 1,5; 2,0; 2,5; 3,0; 4,0

Surubelnita cu profil TORX® ESD

- *pentru toate lucrarile pe componente electrostatic sensibile*

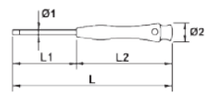


	Dimensiune	Ø1	L1	L2	L	Ø2		
64756	TX 4	2,5	40	100	140	16	14	69,15
64757	TX 5	2,5	40	100	140	16	14	69,15
64758	TX 6	2,5	40	100	140	16	14	69,42

Surubelnita cu profil TORX® cu gaura ESD

- *pentru toate lucrarile pe componente electrostatic sensibile*





	Dimensiune	Ø1	L1	L2	L	Ø2		
64762	TTX 7	2,5	40	100	140	16	15	76,41
64763	TTX 8	2,5	40	100	140	16	15	80,26
64764	TTX 9	3,0	60	100	160	16	19	84,20
64765	TTX 10	3,0	60	100	160	16	19	88,50

403C

Set de clesti pentru electronisti si surubelnite in cutie de plastic

- *Dimensiunea cutiei : 307 x 260 x 55*





621692	11	975	1G	1	604,22

605E (0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100),
615E (PH 00 x 60, PH 0 x 60, PH 1 x 80), **472/4E** (135),
455/4E (110), **461/4E** (115), **508/4E** (135)

403B

Set de clesti electronisti in cutie de carton



UNIOR

620963	3	350	1G	1	255,39

406/4E (120), 461/4E (115), 508/4E (135)

403A

Set de clesti electronisti in husa



UNIOR

620212	6	733	1E	1	629,86

406/4E(120), 455/4E(110), 461/4E(115), 472/4E(135), 506/4E(140), 512/4E(140)

608CS5E

Set de surubelnite pentru electronisti in cutie de carton



UNIOR

620962	5	133	1G	1	96,32

615E (PH 000 x 60, PH 00 x 60, PH 0 x 60, PH 1 x 80), 625E (PZ 0 x 60)

606CS5E

Set de surubelnite pentru electronisti in cutie de carton



UNIOR

620959	5	131	1G	1	89,85

605E (0.23 x 1.5 x 60, 0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100)

607CS7E

Set de surubelnite pentru electronisti in cutie de carton



UNIOR

620960	7	170	1G	1	124,73

605E (0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100), 615E (PH 00 x 60, PH 0 x 60, PH 1 x 80)

621CS7E

Set de surubelnite pentru electronisti in cutie de carton



UNIOR

620961	TX 6 - TX 20 / 7	166	1G	1	139,95

621E (TX 6, TX 7, TX 8, TX 9, TX 10, TX 15, TX 20)

607S50E

Set de surubelnite electronice pe stand tip display



UNIOR

609953	50	1600	1F	1	1302,47

605E (5x(0.25x1.2x60),5x(0.23x1.5x60),5x(0.3x1.8x60),5x(0.4x2.5x75), 5x(0.5x3.0x100)), 615E (5x(PH000x60),5x(PH00x60),5x(PH1x80)), 625E (5x(PZ0x60),5x(PZ1x80)),978E (230x135x185)

11501570041

Trusa biti si accesorii pentru intretinere si reparatie Smartphone si tablete - 32 piese

• *trusa completa care permite demontarea celor mai multe aparate (aparate electrice, de comunicare, televizoare, optice, calculatoare etc), pentru lucrari de precizie (modelism), precum si a Smartphone-urilor, tabletelor si a iPhone-urilor*



- *Pentalobe 0,8-0,8-1,2-1,5 - iPhone 4/5/6*
- *TORX cu gaura TTX 6 - 6*
- *Lat 1,5/2,0/2,5*
- *HX 1,5/1,5/2,0*
- *TX4/TX5/TX6/TX8/TX10*
- *PH000/PH00/PH0/PH1*
- *Triunghiular TZ30 (3 mm)*
- *Tri-Lobe #0/#0*

1 adaptor 6,35 mm pentru biti 4 mm
1 intermediar
1 antrenor de precizie pentru biti
1 prelungitor
1 penseta
2 despartitoare
1 ventuza pentru ecran

HEXA 4 mm

TIVOLY

11501570041	32 piese	165,89

11501570043

Trusa biti si accesorii pentru intretinere si reparatie Smartphone si tablete - 17 piese

• *un kit de baza mini pentru Smartphone, tablete etc.*
• *ideal pentru Iphone, Samsung, BlackBerry, Motorola, Nokia, HTC, Ipad, Sonny PSP Slimetc.*
• *contine nc[illegible]*



- *Pentalobe 0,8 - 0,8 - 1,2 – 1,2*
- *Lat 1,5 / 2,0*
- *TX3 / TX4 / TX5 / TX6*
- *PH000 / PH0*

1 antrenor de precizie pentru biti
1 extractor carduri SIM
2 despartitoare
1 ventuza pentru ecran

TIVOLY

11501570043	17 piese	87,70

11501570042

Trusa biti si accesorii pentru intretinere si reparatie Smartphone si tablete - 57 piese

• *un kit de baza mini pentru Smartphone, tablete etc.*
• *ideal pentru Iphone, Samsung, BlackBerry, Motorola, Nokia, HTC, Ipad, Sonny PSP Slimetc.*
• *contine noii biti (pentalobe) esentiali pentru iPhone 4/5/6 inclusiv noul iPhone 7*



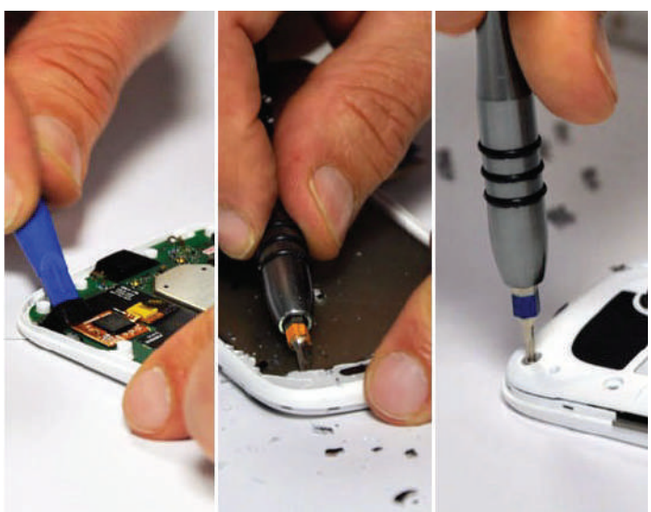


• *curea de mana antistatica pentru a proteja dispozitivele electronice impotriva deteriorarii electrostatice*
• *ventuza mica*
• *5x instrumente de plastic pentru a demontare*
• *2x pene pentru deschidere dispozitivele electronice*
• *penseta curbata - cu falci zimtate pentru o mai buna aderenta*
• *spatula metalica*
• *cutit - instrument util pentru deschiderea dispozitivelor*
• *1x maner pentr biti*
• *1x prelungitor*
• *1 extractor de cartele SIM*
• *set de 42 de biti:*

	28 mm	6	0,8-0,8-1,2-1,2-1,5-2 mm
	28 mm	5	PH000-PH000-PH00-PH0-PH1
	28 mm	1	U2,6
	28 mm	6	TX3-4-5-6-8-10
	28 mm	5	TTX6-7-8-9-10
	28 mm	2	3,8-4,5 mm
	28 mm	5	TA 18-20-23-27-32
	28 mm	3	SL1,5-2-2,5 mm
	28 mm	3	H1,5-1,5-2
	50 mm	3	Y000-Y0-Y1
	50 mm	1	ELIPSE
	50 mm	2	Y0-Y1

TIVOLY

11501570042	57 piese	236,77

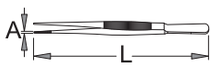


1342

Penseta plata

- *material otel inoxidabil*





UNIOR

	L	A				
619280	160	2	25	4A	10	**21,84**

1343

Penseta plata cu varfuri indoite

- *material otel inoxidabil*





UNIOR

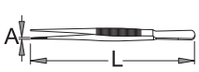
	L	A				
619281	155	2	26	4A	10	**21,84**

1344

Penseta plata

- *material otel inoxidabil*





UNIOR

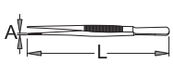
	L	A				
619282	140	1.5	18	4A	10	**16,88**

1345

Penseta ascutita

- *material otel inoxidabil*





UNIOR

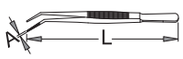
	L	A				
619283	115	1.5	11	4A	10	**13,86**

1346

Penseta ascutita cu varfuri indoite

- *material otel inoxidabil*





UNIOR

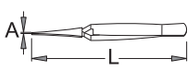
	L	A				
619284	165	2	28	4A	10	**21,84**

1347

Penseta cu varfuri ascutite incrucisate

- *material otel inoxidabil*





UNIOR

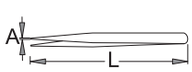
	L	A				
619285	115	1.2	15	4A	10	**11,92**

1348

Penseta cu varfuri tip lopata

- *material otel inoxidabil*





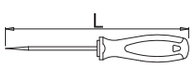
UNIOR

	L	A				
619286	120	1	12	4A	10	**13,13**

639A

Scula de gaurit rotunda cu lama dreapta







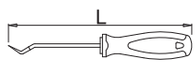
UNIOR

	L				
617773	165	31	4B	10	**15,13**

639C

Scula de gaurit cu lama rotunda dublu indoita







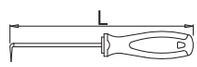
UNIOR

	L				
617775	165	31	4B	10	**17,22**

639B

Scula de gaurit rotunda, lama indoita la 90°







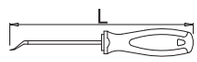
UNIOR

	L				
617774	165	31	4B	10	**17,22**

639D

Scula de gaurit rotunda,dublu indoita si lama mica







UNIOR

	L				
617776	165	31	4B	10	**18,24**

639PB

Set scule de gaurit



UNIOR

617777	4	140	1F	1	**67,76**

639A (165), **639B** (165), **639C** (165), **639D** (165)



SCULE CONSTRUCTII SI AMENAJARI

Mistrii si spacluri

MASTER - forjate intr-o singura bucata, lama calita si slefuita conic
PRO - sudate cu lama intarita, slefuita conic si lustruita pe ambele fete
HOBBY - sudate cu lama intarita, lustruita pe ambele fete
INOX - din otel inoxidabil

FSC (Forest Stewardship Council)

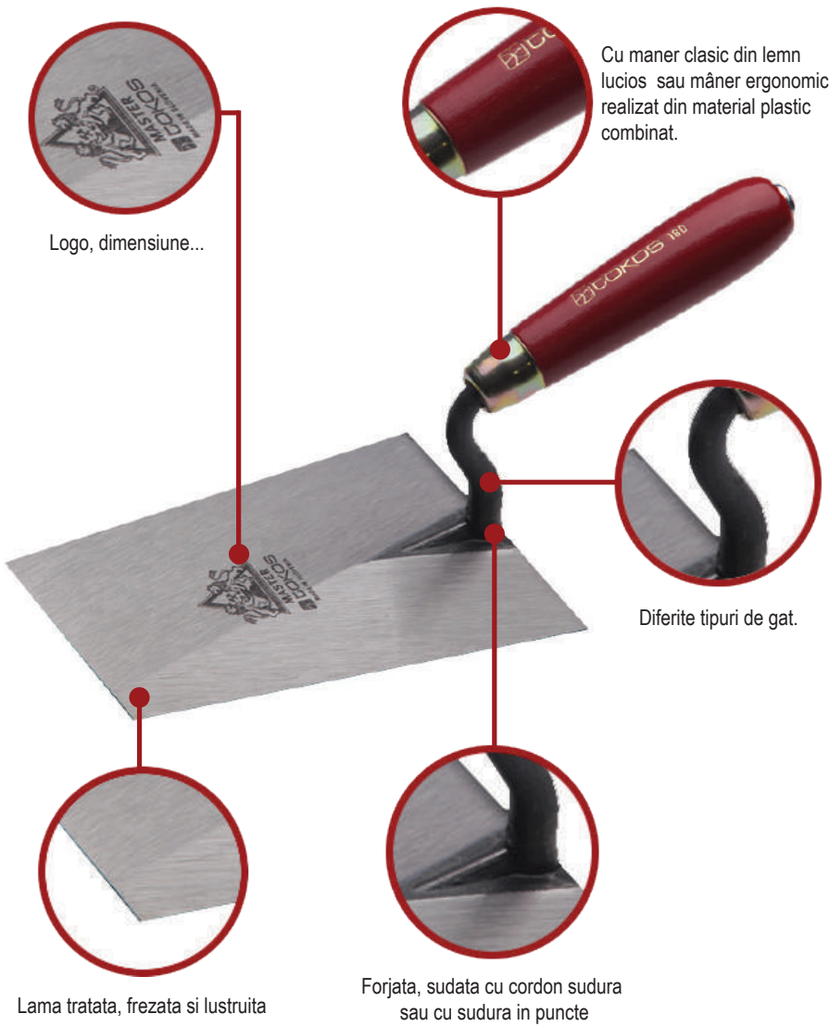
FSC (Forest Stewardship Council) este o organizatie independenta, neguvernamentala si non-profit aparuta in anul 1993 pentru a promova un management forestier responsabil in padurile din intreaga lume.

Scule amenajari

scule pentru gips-carton, scule pentru zidarie, scule pentru montare izolatii exterioare, scule montare acoperisuri, scule pentru montare podele, scule pentru montare gabioane

ABTOKOS EDMA Outillage du bâtiment

TOKOS SCULE AMENAJARI INTERIOARE SI EXTERIOARE



Mistrii	606
Gletiere	614
Spacluri	614
Scule pentru gips-caron	615
Scule pentru zidarie	618
Scule montaj izolari exterioare	618
Scule montare acoperisuri	619
Scule montare podele	622
Scule montare gabioane	623



EDMA SCULE AMENAJARI INTERIOARE SI EXTERIOARE

Outillage du bâtiment

Scule pentru gips-caron | Scule pentru zidarie | Scule izolari exterioare | Scule montare acoperisuri | Scule montare podele | Scule montare gabioane



MASTER Mistrii si spacluri forjate intr-o singura bucata, lama calita si slefuita conic

PRO Mistrii si spacluri sudate cu lama intarita, slefuita conic si lustruita pe ambele fete

HOBBY Mistrii si spacluri sudate cu lama intarita, lustruita pe ambele fete

INOX Mistrii si spacluri din otel inoxidabil

6100

Mistrie ital-elvetiana

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6100160	160	320	69,46
6100180	180	345	72,48
6100200	200	380	77,63
6100220	220	410	80,47
6100240	240	440	84,56

6101

Mistrie ital-elvetiana

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6101160	160	260	69,46
6101180	180	315	72,48
6101200	200	340	77,63
6101220	220	370	80,47
6101240	240	400	84,56

6102

Mistrie pentru zidarie, gat drept

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6102160	160	330	69,46
6102180	180	375	72,48
6102200	200	410	74,08
6102220	220	430	77,63

6103

Mistrie pentru zidarie, gat de lebada

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6103160	160	330	69,46

6104

Mistrie mortar, model Berna

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6104120	120	170	59,33
6104140	140	190	60,22
6104160	160	210	61,82

6111

Mistrie forjata intr-o singura bucata, lama calita si slefuita conic

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6111120	120	140	62,71
6111140	140	150	63,95
6111160	160	170	66,61

6113

Mistrie pentru tiglari

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6113190	190	190	71,41

6115

Mistrie ascutita, model Hamburg

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6115120	120	130	56,67
6115140	140	145	59,15
6115160	160	160	61,82

6116

Mistrie pentru suprafete ceramice, ascutita, forma de inima

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6116160	160	280	79,58

6117

Mistrie pentru suprafete ceramice, ascutita, forma de inima

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6117160	160	300	90,06

6120

Mistrie pentru suprafete ceramice, tip Germania de sud

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6120160	160	340	82,42

6121

Mistrie pentru suprafete ceramice, tip Germania de nord, cu capac de cauciuc

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6121160	160	360	88,29

MASTER Mistrii si spacluri forjate intr-o singura bucata, lama calita si slefuita conic

PRO Mistrii si spacluri sudate cu lama intarita, slefuita conic si lustruita pe ambele fete

HOBBY Mistrii si spacluri sudate cu lama intarita, lustruita pe ambele fete

INOX Mistrii si spacluri din otel inoxidabil

6125

Spaclu pentru tencuieli

• spaclu forjat intr-o singura bucata, lama calita si slefuita conic



	mm		
6125030	30	160	50,98
6125040	40	165	50,98
6125050	50	170	50,98
6125060	60	175	50,98
6125070	70	185	55,42
6125080	80	195	58,27
6125100	100	215	62,71

6135

Mistrie caramida, tip ARNHEIM, stanga / dreapta

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6135180	180	340	77,27

6171

Mistrie tip grecesc

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6171200	200	260	78,34
6171220	220	280	82,60
6171240	240	300	86,69
6171260	260	320	91,84

6161

Mistrie tip belgian, rotunda

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6161180	180	390	80,47
6161190	190	410	82,96
6161200	200	430	82,96

6127

Mistrie cu articulatie, tip danez, gat rotund

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6127006	6	80	33,04
6127008	8	90	33,04
6127010	10	100	33,04
6127012	12	110	33,04
6127014	14	120	33,04

6166

Mistrie caramida, tip belgian

• mistrie forjata intr-o singura bucata, lama calita si slefuit



	mm		
6166180	180	330	80,47

6132

Spaclu pentru suprafete ceramice

• spaclu forjat intr-o singura bucata, lama calita si slefuita conic



	mm		
6132060	60	175	65,37
6132070	70	185	68,75
6132080	80	195	72,12
6132100	100	215	79,58

6163

Mistrie caramida, tip Brussels

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6163200	200	430	82,96

6167

Mistrie caramida, tip Paris

• mistrie forjata intr-o singura bucata, lama calita si slefuita conic



	mm		
6167180	180	390	80,47
6167200	200	430	82,96

6200

Mistrie, model elvetian, dreapta

• mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete



	mm		
6200160	160	250	42,81
6200180	180	340	42,81
6200200	200	375	44,59
6200220	220	400	46,19
6200240	240	430	48,32

6201

Mistrie, model ital-elvetian, rotunda

• mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete



	mm		
6201160	160	240	42,81
6201180	180	310	42,81
6201200	200	330	44,59
6201220	220	360	46,19
6201240	240	390	48,32

6202

Mistrie zidarie, gat drept

• mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete



	mm		
6202160	160	270	42,81
6202180	180	365	42,81
6202200	200	400	44,59
6202220	220	420	46,19

MASTER — Mistrii si spacluri forjate intr-o singura bucata, lama calita si slefuita conic

PRO — Mistrii si spacluri sudate cu lama intarita, slefuita conic si lustruita pe ambele fete

HOBBY — Mistrii si spacluri sudate cu lama intarita, lustruita pe ambele fete

INOX — Mistrii si spacluri din otel inoxidabil

6205

Mistrie zidarie, tipul Berlin

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6205180	180	350	63,59
6205200	200	380	67,15
6205220	220	450	74,43
6205240	240	510	84,20
6205260	260	270	89,71
6205280	280	610	95,04

6208

Mistrie tip Bavaria, gat de lebada

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6208180	180	375	63,42
6208200	200	415	66,97
6208220	220	460	71,41

6211

Mistrie limba de pisica, ascutita

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6211120	120	140	37,13
6211140	140	150	37,13
6211160	160	170	38,73

6207

Mistrie tip Bavaria, gat drept

• *mistrie forjata intr-o singura bucata, lama calita si slefuita conic*



	mm		
6207180	180	375	63,42
6207200	200	415	66,97
6207220	220	460	71,41

6203

Mistrie zidarie, gat de lebada

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6203160	160	270	42,81
6203180	180	365	42,81
6203200	200	400	44,59
6203220	220	420	46,19

6206

Mistrie tip Berlina

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6206220	220	500	74,43
6206240	240	550	84,20

6209

Mistrie mortar, tip Berlin

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6209200	200	420	80,83
6209220	220	460	90,60
6209240	240	515	101,43
6209260	260	570	106,40
6209280	280	620	111,02

6212

Mistrie limba

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6212160	160	160	38,73
6212170	170	170	42,28

6204

Mistrie mortar, tip Berna

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6204120	120	150	36,06
6204140	140	170	36,06
6204160	160	190	38,73

6210

Mistrie tip Düsseldorf, pentru beton

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6210180	180	310	45,12

6213

Mistrie pentru tiglari, colturi rotunde

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6213190	190	180	42,99

6217

Mistrie pentru suprafete ceramice, forma de inima, capac de cauciuc

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6217160	160	290	60,22

MASTER Mistrii si spacluri forjate intr-o singura bucata, lama calita si slefuita conic

PRO Mistrii si spacluri sudate cu lama intarita, slefuita conic si lustruita pe ambele fete

HOBBY Mistrii si spacluri sudate cu lama intarita, lustruita pe ambele fete

INOX Mistrii si spacluri din otel inoxidabil

6215

Mistrie ascutita, tip HAMBURG

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6215120	120	110	38,73
6215140	140	120	40,50
6215160	160	140	43,70

6216

Mistrie pentru suprafete ceramice, forma de inima

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6216160	160	270	51,16

6218

Mistrie pentru suprafete ceramice, tip Germania de nord

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6218160	160	300	51,16

6219

Mistrie pentru placi ceramice, tip Germania de nord

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6219160	160	320	60,22

6220

Mistrie pentru suprafete ceramice, tip Germania de sud

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6220160	160	160	49,38

6221

Mistrie pentru suprafete ceramice, tip Germania de sud, capac de cauciuc

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6221160	160	160	58,62

6222

Rascheta cu articulatie, tip Berlin

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6222025	25	125	35,88
6222030	30	135	35,88
6222035	35	150	35,88
6222040	40	160	36,59
6222045	45	170	37,13

6223

Mistrie pentru tiglari, tipul Hannover

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6223220	220 x 30	160	59,69

6224

Mistrie Rooflayer, tip danez

• *mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6224200	160	160	46,90

6225

Spaclu pentru tencuieli

• *spaclu sudat cu lama intarita si slefuita conic, lustruita pe ambele fete*



	mm		
6225030	30	100	29,31
6225040	40	105	29,31
6225050	50	110	29,31
6225060	60	115	29,31
6225070	70	125	30,73
6225080	80	135	33,22
6225100	100	155	34,46

6226

Mistrie cu articulatie, gat turtit

• *mistrie sudata cu lama intarita si slefuita conic, lustruit*



	mm		
6226006	6	70	17,76
6226008	8	80	17,76
6226010	10	90	17,76
6226012	12	95	17,76
6226014	14	100	17,76

FSC (Forest Stewardship Council) este o organizatie independenta, neguvernamentala si non-profit aparuta in anul 1993 pentru a promova un management forestier responsabil in padurile din intreaga lume.

FSC® C006008

MASTER Mistrii si spacluri forjate intr-o singura bucata, lama calita si slefuita conic

PRO Mistrii si spacluri sudate cu lama intarita, slefuita conic si lustruita pe ambele fete

HOBBY Mistrii si spacluri sudate cu lama intarita, lustruita pe ambele fete

INOX Mistrii si spacluri din otel inoxidabil

6228

Mistrie de colt interior, patrata

• mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete



ABTOKOS

PRO

	mm		
6228080	80 x 60 x 60	170	31,98
6228110	110 x 75 x 75	210	46,54
6228120	120 x 97 x 97	225	48,32

6229

Mistrie de colt exterior, patrata

• mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete



ABTOKOS

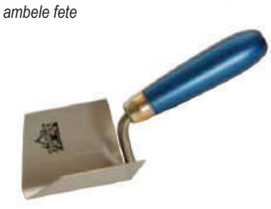
PRO

	mm		
6229080	80 x 60 x 60	170	31,98
6229110	110 x 75 x 75	210	46,54
6229120	120 x 97 x 97	225	48,32

6230

Mistrie de colt interior, rotunda

• mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete



ABTOKOS

PRO

	mm		
6230080	80 x 60 x 60	170	31,98

6231

Mistrie de colt exterior, rotunda

• mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete



ABTOKOS

PRO

	mm		
6231080	80 x 60 x 60	170	31,98

6232

Spaclu pentru suprafete ceramice

• spaclu sudat cu lama intarita si slefuita conic, lustruita pe ambele fete



ABTOKOS

PRO

	mm		
6232060	60	155	40,32
6232070	70	165	42,10
6232080	80	175	44,23
6232100	100	195	48,67

6233

Spaclu pentru tencuieli

• spaclu sudat cu lama intarita si slefuita conic, lustruita pe ambele fete



ABTOKOS

PRO

	mm		
6233070	70	140	36,59
6233080	80	160	38,55
6233100	100	180	39,44

6234

Mistrie caramida, tip Aachen

• mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete



ABTOKOS

PRO

	mm		
6234180	180	425	70,35



6236

Mistrie pentru tencuieli, model Germania de sud

• mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete



ABTOKOS

PRO

	mm		
6236180	180	365	46,90
6236200	200	385	49,03
6236220	220	410	51,52

6235

Mistrie caramida, tip Arneim

• mistrie sudata cu lama intarita si slefuita conic, lustruita pe ambele fete



ABTOKOS

PRO

	mm		
6235180	180	340	69,63
6235200	200	380	72,83

6300

Mistrie Ital-Elvetiana, patrata

• mistrie sudata, lama calita si ambele parti lustruite



ABTOKOS

HOBBY

	mm		
6300160	160	260	34,99
6300180	180	280	34,99
6300200	200	310	37,48

6301

Mistrie Ital-Elvetiana, rotunda

• mistrie sudata, lama calita si ambele parti lustruite



ABTOKOS

HOBBY

	mm		
6301160	160	250	34,99
6301180	180	270	34,99

MASTER — Mistrii si spacluri forjate intr-o singura bucata, lama calita si slefuita conic

PRO — Mistrii si spacluri sudate cu lama intarita, slefuita conic si lustruita pe ambele fete

HOBBY — Mistrii si spacluri sudate cu lama intarita, lustruita pe ambele fete

INOX — Mistrii si spacluri din otel inoxidabil

6302

Mistrie zidarie, gat drept

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6302160	160	280	**34,99**
6302180	180	300	**34,99**
6302200	200	325	**37,48**
6302220	220	420	**39,97**

6303

Mistrie zidarie, gat de lebada

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6303160	160	280	**34,99**
6303180	180	300	**34,99**
6303200	200	325	**37,48**
6303220	220	420	**39,97**

6304

Mistrie mortar, tip Bern

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6304120	120	150	**29,84**
6304140	140	170	**29,84**
6304160	160	190	**32,33**

6311

Mistrie tip limba de pisica, ascutita

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6311120	120	120	**33,22**
6311140	140	130	**33,22**
6311160	160	155	**34,99**

6316

Mistrie pentru suprafete ceramice, forma de inima

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6316160	160	270	**49,03**

6312

Mistrie tip limba, ascutita

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6312160	160	145	**34,99**
6312170	170	160	**35,88**

6313

Mistrie pentru tiglari, colturi rotunde

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6313190	190	165	**37,30**

6315

Mistrie ascutita, model Hamburg

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6315120	120	115	**31,80**
6315140	140	125	**33,04**
6315160	160	145	**34,99**

6317

Mistrie pentru suprafete ceramice, forma de inima, capac de cauciuc

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6317160	160	290	**55,42**

6318

Mistrie pentru suprafete ceramice, tip Germania de nord

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6318160	160	300	**50,98**

6320

Mistrie pentru suprafete ceramice, tip Germania de sud

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6320160	160	330	**39,97**

6325

Rascheta pentru mortar

• *rascheta sudata, lama calita si ambele parti lustruite*



	mm		
6325030	30	105	**26,82**
6325040	40	110	**26,82**
6325050	50	115	**26,82**
6325060	60	120	**26,82**
6325070	70	130	**27,53**
6325080	80	140	**30,20**
6325100	100	160	**32,33**

MASTER Mistrii si spacluri forjate intr-o singura bucata, lama calita si slefuita conic

PRO Mistrii si spacluri sudate cu lama intarita, slefuita conic si lustruita pe ambele fete

HOBBY Mistrii si spacluri sudate cu lama intarita, lustruita pe ambele fete

INOX Mistrii si spacluri din otel inoxidabil

6319

Mistrie pentru suprafete ceramice, tip Germania de nord, capac de cauciuc

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6319160	160	160	**59,69**

6321

Mistrie pentru suprafete ceramice, tip Germania de sud, capac de cauciuc

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6321160	160	530	**49,03**

6332

Spatula pentru suprafete ceramice

• *spatula sudata, lama calita si ambele parti lustruite*



	mm		
6332060	60	160	**32,86**
6332070	70	170	**34,28**
6332080	80	180	**36,06**
6332100	100	200	**39,97**

6500

Mistrie Ital-Elvetiana, patrata

• *mistrie din inox*



	mm		
6500160	160	240	**41,75**
6500180	180	260	**41,75**
6500200	200	285	**43,17**

6322

Rascheta cu articulatie, tip BERLIN

• *rascheta sudata, lama calita si ambele parti lustruite*



	mm		
6322025	25	120	**48,50**
6322030	30	130	**48,50**
6322035	35	145	**48,50**
6322040	40	155	**48,50**
6322045	45	165	**48,50**

6333

Spatula pentru mortar

• *spatula sudata, lama calita si ambele parti lustruite*



	mm		
6333070	70	145	**35,71**
6333080	80	165	**37,13**
6333100	100	185	**38,90**

6501

Mistrie Ital-Elvetiana, rotunda

• *mistrie din inox*



	mm		
6501160	160	225	**41,75**
6501180	180	245	**41,75**
6501200	200	260	**43,17**

6502

Mistrie pentru zidarie, gat drept

• *mistrie din inox*



	mm		
6502160	160	255	**41,75**
6502180	180	275	**43,52**
6502200	200	300	**43,16**

6503

Mistrie pentru zidarie, gat de lebada

• *mistrie din inox*



	mm		
6503160	160	255	**41,75**
6503180	180	275	**43,52**
6503200	200	300	**44,23**

6511

Mistrie forma limba de pisica, ascutita

• *mistrie din inox*



	mm		
6511120	120	115	**31,62**
6511140	140	125	**31,62**
6511160	160	150	**33,04**

6517

Mistrie pentru suprafete de ceramica, forma de inima, capac de cauciuc

• *mistrie din inox*



	mm		
6517160	160	290	**56,31**

6520

Mistrie pentru suprafete de ceramica, model Germania de sud

• *mistrie din inox*



	mm		
6520160	160	320	**49,03**

MASTER — Mistrii si spacluri forjate intr-o singura bucata, lama calita si slefuita conic

PRO — Mistrii si spacluri sudate cu lama intarita, slefuita conic si lustruita pe ambele fete

HOBBY — Mistrii si spacluri sudate cu lama intarita, lustruita pe ambele fete

INOX — Mistrii si spacluri din otel inoxidabil

6504

Mistrie pentru mortar, tip Bern

• *mistrie din inox*



	mm		
6504120	120	145	35,35
6504140	140	165	36,24
6504160	160	185	37,13

6515

Mistrie ascutita, model Hamburg

• *mistrie din inox*



	mm		
6515140	140	115	31,62

6518

Mistrie pentru suprafete de ceramica, model Germania de nord

• *mistrie din inox*



	mm		
6518160	160	160	49,92

6521

Mistrie pentru suprafete de ceramica, model Germania de sud, capac de cauciuc

• *mistrie din inox*



	mm		
6521160	160	340	57,73

6516

Mistrie pentru suprafete de ceramica, forma de inima

• *mistrie din inox*



	mm		
6516160	160	270	48,85

6519

Mistrie pentru suprafete de ceramica, model Germania de nord, capac de cauciuc

• *mistrie sudata, lama calita si ambele parti lustruite*



	mm		
6519160	160	320	54,36

6522

Rascheta cu articulatie, tip Berlin

• *rascheta din inox*



	mm		
6522025	25	1	33,40
6522030	30	1	33,40
6522035	35	1	34,28
6522040	40	1	34,28
6522045	45	1	34,82

6589

Rascheta pentru mortar, model Suedez

• *rascheta din inox*



	mm		
6589160	160	160	34,28

6525

Rascheta pentru mortar

• *rascheta din inox*



	mm		
6525030	30	100	26,65
6525040	40	105	27,18
6525050	50	110	28,07
6525060	60	115	28,96
6525070	70	125	29,49
6525080	80	135	30,20
6525100	100	155	30,73

6528

Mistrie de colt interior, dreapta

• *mistrie din inox*



	mm		
6528080	80 x 60 x 60	170	33,75
6528110	110 x 75 x 75	210	44,23
6528120	120 x 97 x 97	225	52,05

6529

Mistrie de colt exterior, dreapta

• *mistrie din inox*



	mm		
6529080	80 x 60 x 60	170	33,75
6529110	110 x 75 x 75	210	44,23
6529120	120 x 97 x 97	225	52,05

MASTER Mistrii si spacluri forjate intr-o singura bucata, lama calita si slefuita conic

PRO Mistrii si spacluri sudate cu lama intarita, slefuita conic si lustruita pe ambele fete

HOBBY Mistrii si spacluri sudate cu lama intarita, lustruita pe ambele fete

INOX Mistrii si spacluri din otel inoxidabil

6602

Gletiera dintata

• *gletiera pentru tencuieli*



ABTOKOS

	mm		
6602180	280 x 130	350	**55,07**

6603

Gletiera pentru doua maini

• *mistrie pentru tencuieli*



ABTOKOS

	mm		
6603500	500 x 130	580	**89,71**

6601

Gletiera cu maner lemn

• *gletiera pentru tencuieli*



ABTOKOS

	mm		
6601280	280 x 130	390	**49,38**

6702

Mistrie dintata pentru mortar, inox

• *mistrie pentru tencuieli*



ABTOKOS

	mm		
6702280	280 x 130	380	**57,20**

6604

Gletiera pentru doua maini, rotunjita

• *mistrie pentru tencuieli*



ABTOKOS

	mm		
6604500	500 x 130	580	**94,68**

6701

Gletiera pentru mortar, inox

• *mistrie pentru tencuieli*



ABTOKOS

	mm		
6701280	280 x 130	580	**52,40**

5196

Spaclu pentru pereti

• *rascheta pentru pereti*



ABTOKOS

	mm		
5196020	20	50	**9,95**
5196030	30	55	**10,48**
5196040	40	60	**11,01**
5196050	50	65	**12,26**
5196060	60	70	**13,32**
5196070	70	72	**13,86**
5196080	80	74	**15,10**
5196090	90	76	**15,63**
5196100	100	78	**18,65**
5196120	120	85	**19,36**
5196140	140	100	**23,09**

7150R

Mistrie rotunjita

• *material: OLC 50*
• *grosime: 0,7 mm*
• *duritate 52 HRC*
• *maner lemn*



KRONUS Professional Quality

	mm		
71560	180	260	**14,17**
71561	200	285	**15,10**
71562	210	335	**15,47**

7150P

Mistrie patrata

• *material: OLC 50*
• *grosime: 0,7 mm*
• *duritate 52 HRC*
• *maner lemn*



KRONUS Professional Quality

	mm		
71571	180	260	**14,17**
71572	200	285	**15,10**

7150T

Mistrie triunghiulara

• *material: OLC 50*
• *grosime: 0,7 mm*
• *duritate 52 HRC*
• *maner lemn*



KRONUS Professional Quality

	mm		
71578	140	215	**8,75**
71579	160	240	**9,33**

7011

Gletiera cu maner de lemn

• *material: 3cr13*
• *grosime: 0,7 mm*
• *maner lemn*



KRONUS Professional Quality

	mm		
70111	200 x 80	360	**32,44**
70110	240 x 100	385	**34,49**
70112	130 x 280	435	**38,78**

074555

Foarfeca universala cu falci unghiulare

- *cu greutate redusa si usor de folosit*
- *falci din otel inoxidabil zimtate de 42 mm*
- *brate incasabile, usor de manevrat*
- *aplicatii: renovari, zugravit, gradinarit, industria textila, intretinere, constructii, industrie*
- *falci inclinate pentru un confort optim*



	mm		
074555	185	167	80,75

060055

Cleste pentru sertizat profile metalice de gips-carton, utilizare cu doua maini

- *capacitate maxima: 1 + 1 mm*
- *preducea model nou, brevetat*
- *fixari cu 60% mai puternice*
- *cu 30% mai putin efort*



	mm		
060055	1+1	930	351,19

060155

Perforator de schimb pentru cleste pentru sertizat 060055

- *capacitate maxima: 1 + 1 mm*
- *preducea model nou, brevetat*
- *fixari cu 60% mai puternice*
- *cu 30% mai putin efort*



	mm		
060155	1+1	45	44,84

066855

Cleste pentru sertizat profile metalice de gips-carton, utilizare cu o mana

- *capacitate maxima: 1 + 1 mm*
- *preducea model nou, brevetat*
- *fixari cu 60% mai puternice*
- *cu 30% mai putin efort*

ULTRA PROFIL®





	mm		
066855	1+1	825	449,50

566855

Perforator de schimb pentru cleste pentru sertizat 066855

- *capacitate maxima: 1 + 1 mm*
- *preducea model nou, brevetat*
- *fixari cu 60% mai puternice*
- *cu 30% mai putin efort*



	mm		
566855	1+1 mm	1	65,18

064055

Manere pentru transport placi gips-carton (2 buc) DUOPLAC

- *manere din otel Ø 15 mm pentru transportul placilor de gips-carton de catre doua persoane*
- *sustin pana la doua placi*
- *manere din cauciuc ergonomic*
- *constructie rezistenta*
- *pot fi atasate la curea*



	mm		
064055	115 x 140	1260	123,12

064555

Maner pentru transport placi gips-carton TRANSPLAC

- *permite transportul placilor de gips-carton de catre o singura persoana*
- *baza larga pentru o mai buna asezare a panourilor*





	mm		
064555	565 x 140	1240	122,51

069655

Maner pentru transport placi de gips-carton TRANSPLAC EASY

- *permite transportul placilor de gips-carton de catre o singura persoana*
- *greutate redusa si usor de manevrat*
- *design eficient si sigur pentru transport in siguranta*





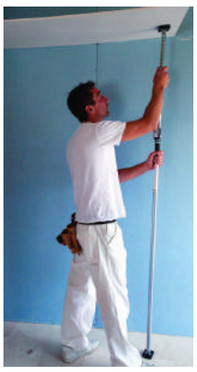
	mm		
069655	530 x 160	315	88,14

066155

Sistem de ridicat si montat placi gips-carton 160-290 cm

- *permite mentinerea placilor de gips-carton de sub plafoane sau acoperisuri inclinate*
- *extensibil de la 160 cm la 290 cm*
- *sarcina maxima la 90°: 60 kg*
- *sarcima maxima la 65°: 20 kg*
- *blocare de siguranta*
- *tampoane articulate in partea superioara si inferioara (20x6 cm)*
- *certificat GS*





	mm		
066155	160-290	2200	**220,67**

066355

Suport placi de gips-carton 75-125 cm

- *permite asigurarea meterialelor in vehicole*
- *extensibil de la 75 cm la 125 cm*
- *sarcina maxima la 90°: 60 kg*
- *sarcima maxima la 65°: 20 kg*
- *blocare de siguranta*
- *certificat GS*



	mm		
066355	75 - 125	615	**176,90**

163155

Echer pentru marcarea placilor de gips-carton

- *pentru realizarea rapida a taierilor drepte*
- *maxim 62 cm*
- *perfect pentru marcare si de taiere*
- *scala dubla: inch / mm*





	mm		
163155	515 x 625	615	**249,49**

064755

Rindea dreapta pentru gips-carton si lemn VARIO RAP

- *3 pozitii reglabile de lucru*
- *raspel interschimbabil*





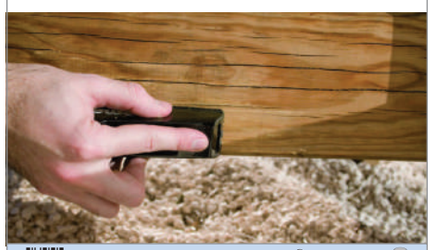
	mm		
064755	257	425	**118,04**

066755

Mini-rindea dreapta pentru gips-carton EASY RAP

- *design ergonomic*
- *raspel interschimbabil*





	mm		
066755	257	185	**65,49**

067055

Fierastrau coada de soarece pentru gips-carton CROCOPLAC II

- *util pentru decupaje in placi prefabricate din beton, gips-carton, placi din lemn etc.*
- *lama cu 3 fatete*
- *dinti pe ambele parti pentru taieri multidimensionale*
- *cu greutate redusa si usor de manevrat*
- *maner ergonomic bi-material*







	mm		
067055	150	225	**78,59**

067255

Fierastrau coada de soarece pentru gips-carton CROCOPLAC II

- *util pentru decupaje in placi prefabricate din beton, gips-carton, placi din lemn etc.*
- *lama cu 3 fatete*
- *dinti pe ambele parti pentru taieri multidimensionale*
- *cu greutate redusa si usor de manevrat*
- *maner ergonomic bi-material*







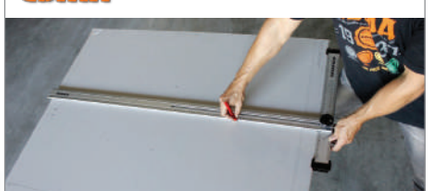
	mm		
067255	250	280	**106,64**

173055

Echer reglabil pentru gips-carton

- *unghi reglabil*
- *poate fi pliat la 0°, pentru economisire de spatiu*
- *grosime de 7 mm*
- *constructie usoara si rezistenta din aluminiu*





	mm		
173055	0-360°	1023	**203,56**

067755

Dispozitiv reglabil de taiere circulara pentru gips-carton

- *perfect pentru gips-carton*
- *diametrul maxim: 400 mm*
- *utilizare cu o singura pentru realizarea usoara a pre-taierilor*
- *utilizati un ciocan de lemn pentru finalizarea taierii*



	mm		
067755	400	195	**66,11**

162255

Set 3 carote Ø 60, 67, 74 mm pentru gips-carton

- *pot fi utilizate pentru lemn, PVC si gips-carton*
- *adancime de tiere: 32 mm*







	mm		
162255	Ø 60, 67, 74	295	**94,46**

162355

Set 5 carote Ø 68, 74, 80, 90, 100 mm pentru gips-carton

- *pot fi utilizate pentru lemn, PVC si gips-carton*
- *adancime de tiere: 30 mm*

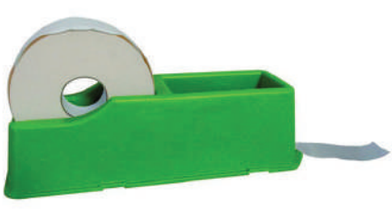


	mm		
162355	Ø 68, 74, 80, 90, 100	575	**143,47**

266455

Dispozitiv de aplicat banda

- *pentru lipirea benzilor direct fara aplicarea in prealabil a unui adeziv*
- *usor de utilizat*
- *un strat se amestec este depus in centrul benzii pentru o lipire optima*
- *2 moduri de incarcare: subtire sau grosa*





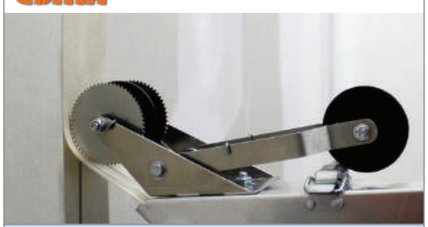
	mm		
266455	-	2200	**400,96**

067901

Dispozitiv de aplicat banda

- *pentru aplicarea usoara a benzilor de pe pereti, tavane si colturile interioare*
- *include banda TEK*





	mm		
067901		1750	**1294,12**

164355

Spaclu multifunctional

- *5 instrumente in 1: spaclu, racleta, curatitor vopsea, surubelnita pentru trafalet, cutit pentru banda adeziva*
- *lama din otel calit si protejat cu lac*
- *maner bi-material*



	mm		
164355	-	91	**56,71**

Spaclu pentru gips-carton

- *pentru finisarea de inalta performanta a gips-cartonului*
- *lama flexibila din otel inoxidabil lustruit*
- *include biti Phillips PH2*
- *blocare/deblocare rapida a bitilor in maner*





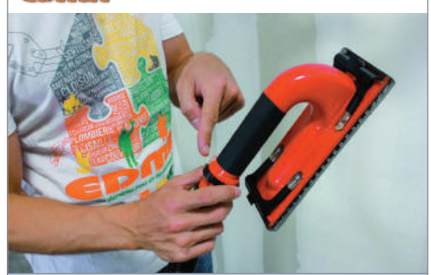
	mm		
169055	100	142	**63,18**
169155	125	153	**71,35**
169255	150	155	**79,67**

166955

Slefuitor pentru placi gips-carton

- *slefuire fara praf*
- *suport pentru foi cu ochiuri de slefuit*
- *cumpatibil majoritatea aspiratoarelor*
- *pentru aspirarea prafului in timpul slefuirii*
- *maner moale pentru confortul utilizatorului*





	mm		
166955	290 x 93	983	**276,14**

161155

Picioroange reglabile 45-76 cm

- *reglabile de la 45 la 76 cm*
- *greutatea maxima: 102 kg*
- *economisire de rimp pentru toate aplicatiile la inaltime*
- *2 blocuri suport pentru o mai buna stabilitate*
- *picioroange din aluminiu - greutate redusa*
- *curele cu catarame metalice pentru o buna stabilitate*





	mm		
161155	450 - 760	7730	**2147,67**

268000

Dispozitiv pentru ridicat placi gips-carton EDMAPLAC 360

- *greutate maxima de incarcare: 65 kg*
- *dimensiuni maxime placa: 1,20 x 3,60 m*
- *dimensiuni minime placa: 0,15 x 0,60 m*
- *inaltime maxima: 3,60 m*
- *inaltime minima: 166 cm*
- *inaltimea ridicare placa: 89 cm*
- *latime minim baza: 98 cm*
- *greutate: 39 kg*



PATENTED

Poate ridica placile de gips carton in pozitie orizontala sau inclinata



instalarea tavanului



instalarea tavanului inclinat

SISTEM CU CREMALIERA SI PINION PENTRU RIDICAREA FARA EFORT A PLACILOR



RIDICAREA PLACILOR CU AJUTORUL MASINII DE INSURUBAT



	mm		
268000	1200 x 3600	53000	**4692,30**

266955

Ghilotina pentru armaturi

- *permite taierea armaturilor cu diametru maxim de 18 mm*
- *functie dubla: taiere si indoire*
- *diametru maxim de taiere: 18 mm*
- *diametrul maxim de indoire: 16 mm*





	mm		
266955	max. 18	19400	**2359,71**

042755

Dispozitiv automat de infasurat cablu

- *1.5 infasurari pe ciclu.*
- *pentru a inchide saci, garduri, cadre, etc.*
- *suficient de mic pentru a fi transportat in buzunar*



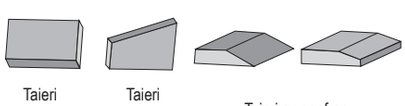
	mm		
042755	200	220	**139,00**

266655

Aparat de taiat cu fir cald

- *aparat taiat cu fir cald pentru taieri curate in polistiren*
- *pentru polistiren expandat si extrudat (XPS și E.P.S)*
- *adamcime maxima de taiere: 330 mm*
- *latime maxima de taiere: 1370 mm*
- *transformator de 40 V / 200 W / 230 V*
- *certificat UE*





Taieri rectangulare | Taieri unghiulare | Taieri cu sanfren



	mm		
266655	1370	8000	**1507,85**

266855

Rezerva pentru aparat de taiat cu fir cald

- *latime maxima de taiere: 1370 mm*



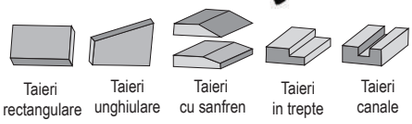
	mm		
266855	1370	10	**75,97**

266555

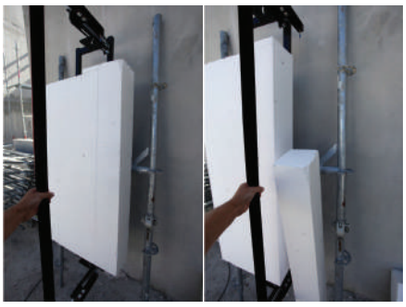
Aparat de taiat cu fir cald

- *dispozitiv de taiat cu fir cald pentru o taiere curata*
- *pentru polistiren expandat si extrudat (EPS si XPS)*
- *adancime maxima de uaiere: 330 mm*
- *inaltime maxima de taiere: 1320 mm*
- *latime maxima de taiere: 1550 mm*
- *taieri unghiulare de la 0° la 90°*
- *taieri cu sanfren de la 90° la 15°*
- *taiere canale pana la adancimea de 300 mm*
- *temperatura firului cald: 350 °C*
- *transformator: 40 V / 200 W / 230 V*
- *certificat CE*





Taieri rectangulare | Taieri unghiulare | Taieri cu sanfren | Taieri in trepte | Taieri canale



	mm		
266555	1550	12600	**5908,90**

366755

Aparat de taiat cu lama calda

- *pentru taieri curate EPS / XPS spuma de izolare si spuma poliuretanica, fara a produce praf*
- *lungime lama: 200 mm*
- *temperatura lamei ajunge la 500 ° C, in cateva secunde*
- *putere: 190 W*
- *se livreaza cu o cutie de plastic, include perie metalica si cheie de fixare*





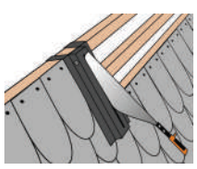
	mm		
366755			1032,46

033055

Ghilotina pentru ardezie PRO MAT-COUP 210

- *pentru ardezie aaturala/ artificiala de pana la 7 mm*
- *taiat curate, fara efort*
- *miscarea de inaintare usoara ardeziei pentru taiere progresiva*
- *conceput pentru mobilitate, cu puncte de fixare*







	mm		
033055	400	12000	392,64

289955

Ghilotina pentru podele lemn MEGA STRATICUT 400

- *taieri curate fara nici un efort*
- *nu necesita ascutirea lamei*
- *fara praf si fara zgomot*
- *opritor detasabil pentru taieturi unghiulare, taieturi pe lungime si latime pana la 400 mm*
- *latimea maxima cu opritor (total): 230 mm, 320 mm si 400 mm*
- *capacitate de taiere: 15 mm grosime si pana la clasa 33 podele din lemn pentru trafic intens in zone comerciale (conform reglementării europene EN 685)*





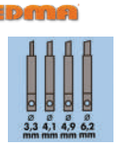
	mm		
289955			1081,77

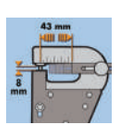
018555

Perforator pentru tabla POLYPERFOR

- *forta de perforare: 740 kg*
- *include un set de 4 stante: Ø 3.3 mm; Ø 4,1 mm pentru cabluri suspendate din otel; Ø 4,9 mm si 6,2 mm pentru tije filetate*
- *deschidere precis la maxim 8 mm*
- *opritor de adancime reglabil pana la 43 mm*
- *aplicatii: acoperisuri, tavane suspendate etc.*







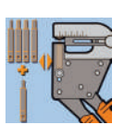


	TABLA	OTEL INOXIDABIL	ALUMINIU
Ø 3,3 mm	1,5 mm	1,2 mm	3 mm
Ø 4,1 mm	1,5 mm	1 mm	2 mm
Ø 4,9 mm	1,2 mm	0,8 mm	2 mm
Ø 6,2 mm	0,8 mm	0,5 mm	1,5 mm

	mm		
018555	3,3; 4,1	1150	902,40

018455

Stante pentru perforator pentru tabla POLYPERFOR

- *Ø 3,3 mm / Ø 4,1 mm / Ø 4,9 mm / Ø 6,2 mm*



	mm		
018455	3.0, 4.1, 4.9, 6.2	135	404,35

031855

Ciocan de capsat

- *foarte bine echilibrat*
- *maner ergonomic bimaterial*
- *recomandat pentru fixarea panouri de izolatie pe acoperis sau alte materiale*
- *capacitate magazie: 175 capse*





	mm		
031855	-	1	272,75

Capse

- *galvanizate*



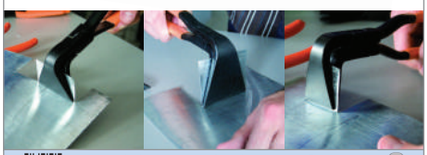
	mm	buc		
131955	6	1000	63	18,49
031955	10	5000	635	70,73
231955	14	1000	191	24,35



Cleste de faltuit la 90°

• *maner plastizolat*





	latime	adancime		
034755	40	54	675	**767,72**
034855	60	58	770	**481,87**
034955	80	68	1100	**1087,32**

135455

Cleste de faltuit triunghiular

• *drept*
• *maner plastizolat*



	latime	adancime		
135455		80	918	**746,45**

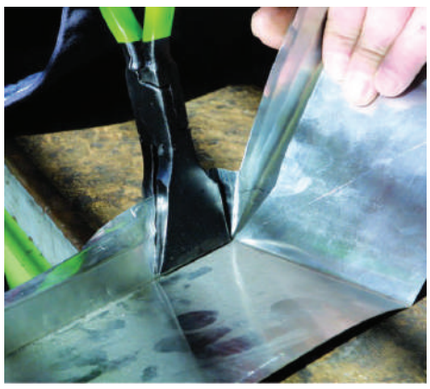
135555

Cleste de faltuit pentru colturi

• *maner plastizolat*



	latime	adancime		
135555		66	809	**567,24**



130755

Dispozitiv bordurat la 90° si 180°

• *pentru realizarea de indoiri pe suprafete drepte si curbe cu raze mici (in interior si in afara)*
• *gradatii in cm si inch*
• *maner cu efect de levier*
• *inaltimea de indoire reglabila continuu de la 5 la 25 mm*
• *capacitati indoire:*
- otel inoxidabil: 0,5 mm
- otel / tabla: 0,7 mm
- cupru: 0,8 mm
- zinc / aluminiu: 1 mm





	mm		
130755	5,0 - 25,0	1010	**3074,57**

130255

Dispozitiv bordurat la 90° si 180°

• *inaltime de la 8 mm la 40 mm*
• *grosimea maxima de 1 mm*
• *instrument gata de lucru: nu necesita alte reglari*
• *capacitati indoire:*
- otel inoxidabil: 0,5 mm
- otel / tabla: 0,7 mm
- cupru: 0,8 mm
- zinc / aluminiu: 1 mm





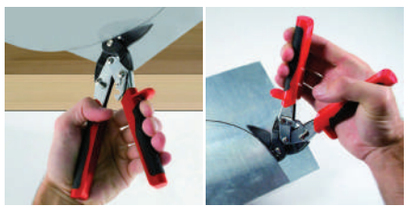
	mm		
130255	4,0 - 40,0	1080	**3059,31**

127055

Foarfeca la 90° cu taiete spre stanga

• *speciala pentru zone cu acces dificil*
• *capacitati de taiere:*
- 0,9 mm otel inoxidabil
- 1,2 mm tabla galvanizata, zincata
- 1,5 mm cupru, alama, tabla
- 2 mm PVC, aluminiu
- 2,5 mm policarbonat
• *lungime de taiere 35 mm*
• *protectie pentru degete*





	mm		
127055	215	500	**171,67**

012755

Foarfeca la 90° cu taiete spre dreapta

• *speciala pentru zone cu acces dificil*
• *capacitati de taiere:*
- 0,9 mm otel inoxidabil
- 1,2 mm tabla galvanizata, zincata
- 1,5 mm cupru, alama, tabla
- 2 mm PVC, aluminiu
- 2,5 mm policarbonat
• *lungime de taiere 35 mm*
• *protectie pentru degete*





	mm		
012755	215	500	**171,67**



038955

Foarfeca atasament pentru masini de gaurit cu acumulatori

- *taiere rapida, usoara si curata*
- *capacitati de taiere:*
- *0,9 mm otel inoxidabil*
- *1,5 mm otel galvanizat, cupru*
- *2 mm aluminiu*
- *pentru toate masinile de gaurit cu acumulatori de 14,4 V si 2 Ah*
- *actionare cu o singura mana*



	mm		
038955	max. 2,0	1290	**1330,18**

017255

Nibbler atasament pentru masini de gaurit cu acumulatori

- *taiere rapida, usoara si curata*
- *capacitati de taiere:*
- *0,8 mm otel inoxidabil*
- *1,5 mm otel galvanizat, zinc, tabla, cupru, alama*
- *2 mm PVC, pardoseli de vinil, aluminiu*
- *2,5 mm policarbonat*
- *atasament pentru metale plate sau ondulate si suprafete din PVC*
- *turatie de minim 300 rpm*





	mm		
017255	max. 2,5	255	**572,17**



037355

Tesla pentru acoperisuri

- *corp forjat*
- *unghie extractoare si ciocan*
- *maner din piele*



	mm		
037355	270	1175	**758,47**

036455

Set pentru decapat

- *special pentru zinc*
- *nu aluneca pe acoperis*



	mm		
036455	220	205	**95,70**

236455

Decapant solid



	mm		
236455		107	**30,36**

136455

Set 25 pensule pentru decapat

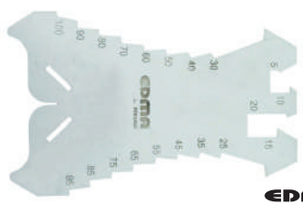


	mm		
136455	-	72	**122,51**

036155

Trasator pentru zinc

- *material: otel inoxidabil*
- *masurare (5 mm) de la 5-100 mm*

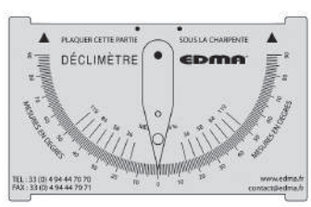


	mm		
036155	-	65	**99,86**

133355

Inclinometru

- *pentru masurarea unghiului*
- *1° precizie*



	mm		
133355	-	45	**40,84**

064255

Trasator cu creta 30 m cu doua manere

- *trasator cu creta cu doua manere*
- *ideal la montajul acoperisurilor*
- *diametrul sfoara: 2 mm*
capacitate: 2 x 100 g
- *sistem de filtrare care restrictioneaza excesul de creta*



	m		
064255	30	250	**138,23**

Rola de presare cu maner lemn

- *2 rulmenti cu bile*
- *rola de silicon*
- *maner din lemn pentru presiunea maxima*
- *diametru: Ø 33 mm*

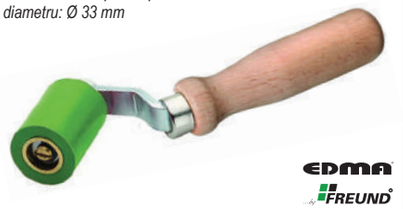


	mm		
134255	28	158	**332,85**
134355	45	195	**347,03**

134455

Rola de presare la 45°

- *2 rulmenti cu bile*
- *rola de silicon*
- *maner din lemn pentru presiunea maxima*
- *diametru: Ø 33 mm*



	mm		
134455	45	194	**357,97**

073155

Dispozitiv de taiere pentru PVC, IRL, ICTA si tevi PER, Ø 16, 20 si 25 mm TRIOCOUP

- *taiere curata, fara efort si deformare sau colmatare*
- *lama din otel inoxidabil*
- *auto-blocare, 3 sloturi de taiere rotative pretensionate*
- *simplu rotirea cilindrului permite schimbarea diametrului de taiere*







	mm		
073155	Ø 16, 20 si 25	510	**190,16**

073255

Lama din otel inoxidabil pentru dispozitivul TRIOCOUP

- *taiere curata, fara efort si deformare sau colmatare*
- *lama din otel inoxidabil*



	mm		
073255	-	40	**108,95**

135155

Recipient plastic cu perie unghiulara

- *LDPE transparent*
- *capac cu filet*
- *perie unghiulara atasata*
- *500 ml*



	ml		
135155	500	79	**121,43**

050155

Menghina reglabila pentru pozitionat tevi

- *pentru tevi de la 8 pana la 30 mm*
- *pentru sudarea tevi, profile si fier forjat*
- *deschiderea bratelor variabila pana la 60 mm*



	mm		
050155	8 - 30	215	**116,04**

050255

Menghina reglabila pentru pozitionat tevi

- *pentru tevi de la 20 pana la 60 mm*
- *pentru sudarea tevi, profile si fier forjat*
- *deschiderea bratelor variabila pana la 100 mm*



	mm		
050255	20 - 60	775	**208,34**

089755

Ghilotina pentru laminate, MDF, podele de vinil LAMINOCUT 2

- *taiere curata fara deteriorarea suprafetelor melaminate*
- *fara praf si zgomot*
- *lama nu necesita ascutire*
- *3 latimi de taiere:*
- *taiere dreapta*
- *taiere la unghi de la 0° la 90°*
- *taiere in lungime*
- *grosime mexima de taiere 11 mm*
- *tampoane de protectie din pasla*



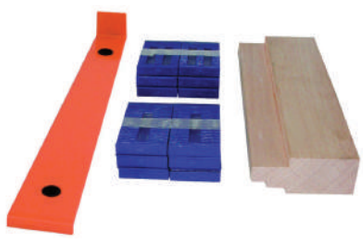


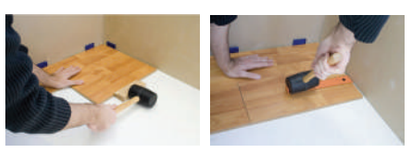
	mm		
089755	610 x 230	3460	**235,77**

087055

Set complet pentru montarea parchetului laminat TAK-TIK

- *setul include:*
- *1 levier (cadru metalic): folosit pentru a muta placile pe lungime pentru a elimina spatiile libere la ajustarea podelelor*
- *1 batator lemn (rama de lemn): un bloc de protectie la montare si ajustare podele*
- *20 distantiere: pentru pozitionarea placilor la perete*





	mm		
087055	-	435	**92,00**

087155

Mini-levier pentru montarea parchetului laminat MINI TAK-TIK

• *folosit pentru a muta placile pe lungime pentru a elimina spatiile libere la ajustarea podelelor*



	mm		
087155	280	550	**40,99**

200-1

Clema de asamblat podele flotante

• *din metal finisat*



	Dim.	L	H	I	G	
200-1	450	450	120	55	1730	**71,10**

200-2

Clema de asamblat podele flotante

• *din metal finisat*

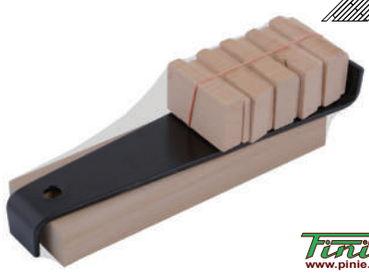


	Dim.	L	H	I	G	
200-2	285	285	60	20	440	**20,31**

200-3

Set de pene de lemn pentru asamblarea podelelor flotante

• *se utilizeaza cu clema de 285 mm*



	Dim.	G	
200-3	300x60x65	860	**53,50**

041255

Cleste strans inele BABY GRAFER 16/20

• *taietor de sarma incorportat pana la 3 mm grosime*
• *opritor pentru o prindere mai puternica a inelului*
• *compatibil cu: OMEGA 16, 18, 20 si DELTA 18, 22*











	mm		
041255	-	236	**85,68**

040655

Cleste strans inele BABY GRAFER 30

• *opritor pentru o prindere mai puternica a inelului*
• *compatibil cu: OMEGA 16, 18, 20 si DELTA 18, 22, 30*







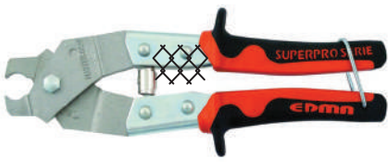


	mm		
040655	185	242	**118,04**

042855

Cleste strans inele MASTER GRAFER

• *falci puternice de 6 mm grosime din otel inoxidabil*
• *foarte usor de manevrat datorita manerelor sale arcuite*
• *falca special concepute pentru a fixa perfect plasa de sarma de stalp*
• *compatibil cu inele CL 29*







	mm		
042855	240	610	**294,79**

043855

Cleste strans inele "BECA" UNI-CLIP BECA

• *falci puternice de 6 mm grosime din otel inoxidabil*
• *foarte usor de manevrat datorita manerelor sale arcuite*
• *permite utilizarea de inele CL 35 Ø 3,5 mm pe stalpi (de tip "BECA")*
• *compatibil cu inele CL 35*





	mm		
043855	242	590	**255,03**

071055

Foarfeca cu unghi variabil de taiere

• *taiere curata fara efort*
• *deschiderea permite taierea usoara de placi decorative din lemn, plinte din lemn, garnituri din cauciuc, sectiuni din PVC*







	mm		
071055	235 x 420	390	**214,20**

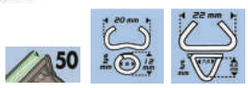
041455

Cleste automat pentru strans inele atasament pentru masini de gaurit cu acumulatori

- *potrivit pentru toate tipurile de masini de gaurit cu acumulator (de la 10,8 V)*
- *pentru inele in banda de legat gerduri*
- *pentru capse OMEGA 20 si DELTA 22*
- *capacitate magazie 50 capse*
- *pozitionare magazie la stanga sau la dreapta*











mm		
041455	-	1044	1133,70

049855

Cleste pneumatic pentru inele CL 24 TURBO 24

- *pentru lucru foarte rapid*
- *presiune de lucru: 5-8 bar*
- *consumul aer: 6 litri/inel*
- *capacitate magazie: ± 100 inele*
- *compatibil cu inele CL 24*





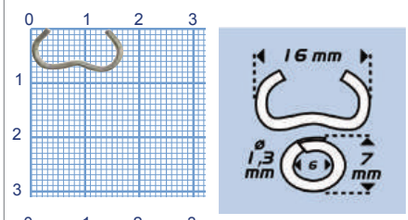


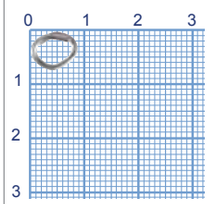
mm		
049855	200 x 385	1483	9932,87

041501

Capse galvanizate A 250 bucati OMEGA 16

- *diametru sarma: 1,3 mm*
- *rezistenta la rupere: 600-800 N/mm²*





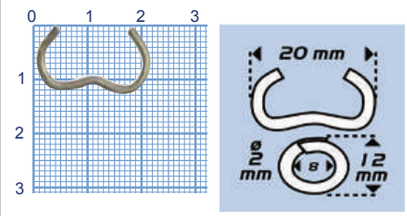
- *BABY GRAFER 16/20*
- *BABY GRAFER 30*
- *TOP GRAFER 16*
- *JUNIOR*

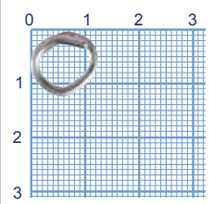
mm	bucati		
041501	16	250	87	24,35

042501

Capse galvanizate A 200 bucati OMEGA 20

- *diametru sarma: 2,0 mm*
- *rezistenta la rupere: 450-550 N/mm²*





- *BABY GRAFER 16/20*
- *BABY GRAFER 30*
- *TOP GRAFER 20/22*
- *MAJOR*
- *POWER GRAFER*

mm	bucati		
042501	20	200	190	30,20

047755

Cleste strans inele de tip Concertina

- *actionare compusa pentru o singura mana*
- *pentru inele galvanizate 046601 si inele otel inoxidabil 046701 Concertina (nu sunt incluse)*



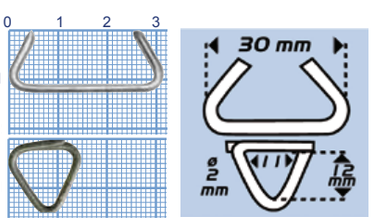


mm		
047755	180	285	237,16

047101

Capse galvanizate A 500 bucati DELTA 30

- *diametru sarma: 2 mm*
- *rezistenta la rupere: 450-550 N/mm²*



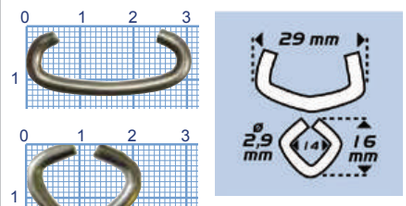
- *TOP GRAFER 30*
- *BABY GRAFER 30*

mm	bucati		
047101	30	500	583	52,70

046901

Capse galvanizate A 100 bucati CL 29

- *diametru sarma: 2,9 mm*
- *rezistenta la rupere: 450-550 N/mm²*



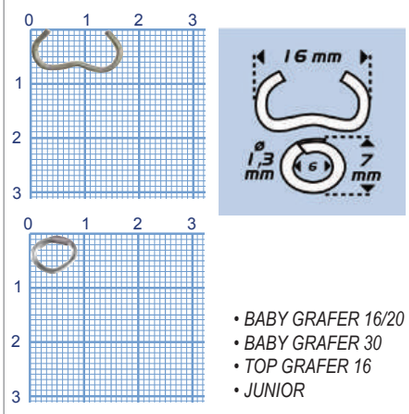
- *MASTER GRAFER*

mm	bucati		
046901	100	253	41,30

044300

Capse otel inoxidabil AISI 316 1250 bucati OMEGA 16

- *diametru sarma: 1,3 mm*
- *rezistenta la rupere: 600-750 N/mm²*



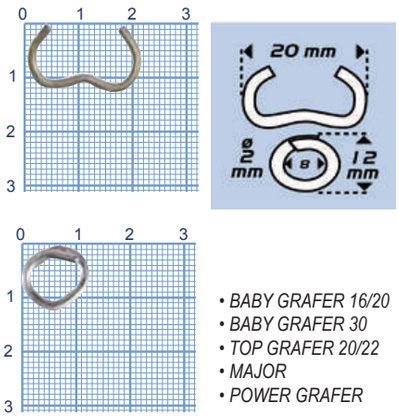
- *BABY GRAFER 16/20*
- *BABY GRAFER 30*
- *TOP GRAFER 16*
- *JUNIOR*

	mm	bucati		
044300	16	1250	384	**121,43**

043001

Capse galvanizate cu acoperire PVC verde 1000 bucati OMEGA 20

- *diametru sarma: 2,0 mm*
- *rezistenta la rupere: 450-600 N/mm²*



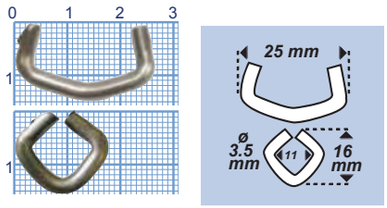
- *BABY GRAFER 16/20*
- *BABY GRAFER 30*
- *TOP GRAFER 20/22*
- *MAJOR*
- *POWER GRAFER*

	mm	bucati		
043001	20	1000	745	**91,84**

043700

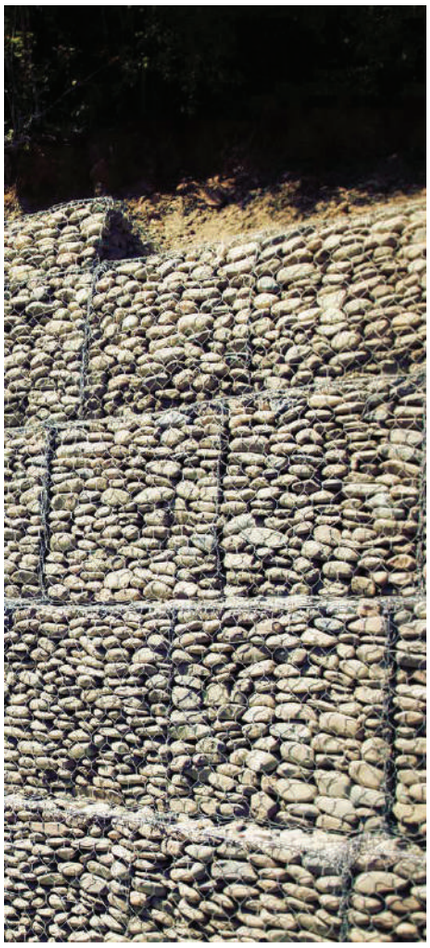
Capse otel inoxidabil AISI 316 500 bucati CL 35

- *diametru sarma: 3,5 mm*
- *rezistenta la rupere: 719 N/mm²*



- *UNI-CLIP BECA*

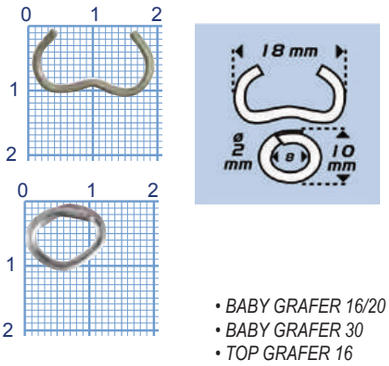
	mm	bucati		
043700	25	500	1574	**466,15**



900470E

Capse galvanizate A 1200 bucati OMEGA 18

- *diametru sarma: 2,0 mm*
- *rezistenta la rupere: 450-550 N/mm²*



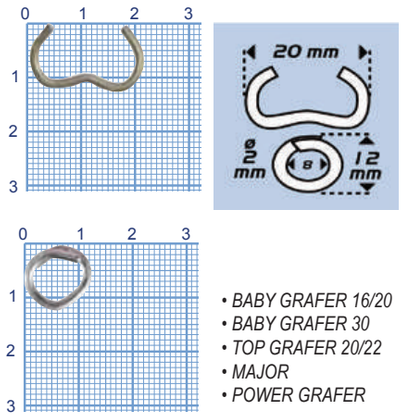
- *BABY GRAFER 16/20*
- *BABY GRAFER 30*
- *TOP GRAFER 16*

	mm	bucati		
900470E	18	1200	804	**75,97**

043501

Capse galvanizate cu acoperire PVC verde 200 bucati OMEGA 20

- *diametru sarma: 2,0 mm*
- *rezistenta la rupere: 450-600 N/mm²*



- *BABY GRAFER 16/20*
- *BABY GRAFER 30*
- *TOP GRAFER 20/22*
- *MAJOR*
- *POWER GRAFER*

	mm	bucati		
043501	20	200	166	**32,51**



SCULE PENTRU LEMN

FIRST

Infiintata in anii ’60, FIRST a fost intodeauna o referinta constanta in Italia si in alte tari, pentru toti consumatorii care cauta scule fiabile si de inalta calitate. O preferinta obtinuta prin imbinarea experientei artizanale cu utilizarea celei mai moderne tehnologii industriale.

FANTACCI

Fantacci Industrie SRL este producator de scule pentru prelucrarea lemnului cu renume mondial. In portofoliul acestuia se regasesc atat scule standard, cat si scule speciale, freze placate CMS, dar si cu placute amovibile.

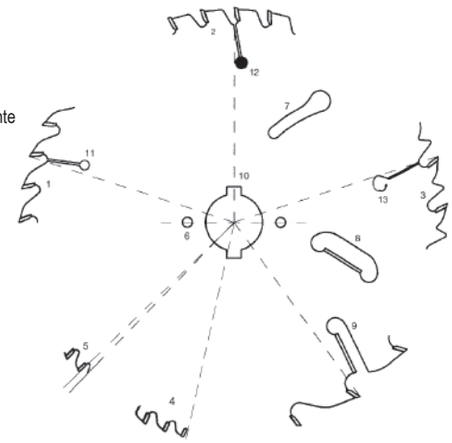
FREUD

Infiintata in 1962 in zona productiei de mobilier din nord-estul Italiei. Pozitia strategica a asigurat intotdeauna o apropiere de utilizatorii finali, permitand firmei Freud nu numai sa testeze noile inovatii in aplicatiile uzuale, ci si sa lucreze direct cu universitatile si fabricile de mobila pentru viitoarele solutii in industria lemnului.

FIRST freud. 1966 FANTACCI 2002 DIAFANT BOHRCRAFT TIVOLY

Panze circulare

1 Forma normala de dinte, inclinatie pozitiva (fata de degajare)
2 Forma dintelui cu ceafa, inclinatie pozitiva si gol rotund de dinte
3 Dinte cu limitarea grosimii de aschiere
4 Dinte cu inclinatie negativa (fata de degajare)
5 Dinte cu inclinatie 0˚ (fata de degajare)
6 Goluri pentru sistemul de franare
7 Element racire
8 Dinte geluitor intern
9 Dinte geluitor de periferie
10 Locas pana
11 Locas de dilatare
12 Locas de dilatare cu pastila de Cu
13 Locas de dilatare



Viteze de taiere recomandate (in m/s) pentru diferite materiale, cu panze circulare cu dinti placati CMS

Material	Tip	m/s
Lemn moale	Brad, molid, plop	60 – 100
Lemn tare	Fag, stejar, salcam, specii exotice	60 – 100
Lemn furniruit	Multiplex	50 – 80
Panouri compozite (pentru mobila)	ST/STAE; lemn stratificat	50 – 90
Panouri din fibre de lemn dure	HDF	50 – 80
Panouri din fibre de lemn de densitate scazuta	MDF	60 – 80
Panouri aschii lemn	PAL	60 – 80
Panouri din particule din lemn acoperite cu PVC	KF	60 – 80
Panouri gips-carton	Carton	40 – 65
Panouri pentru constructii	Cu lianti - ciment	40 – 60
Plastic dur	Duromère	15 – 50
Plastic suplu	Plastomère	30 – 70
Panouri placate	Lemn stratificat, melaminat, texturat	50 – 70
Panouri cu suprafete minelare (vata de sticla/vata minerala)	Rockwool	2 – 8

Determinarea diametrului optim al panzei circulare in functie de turatia motorului si a vitezei de taiere optime

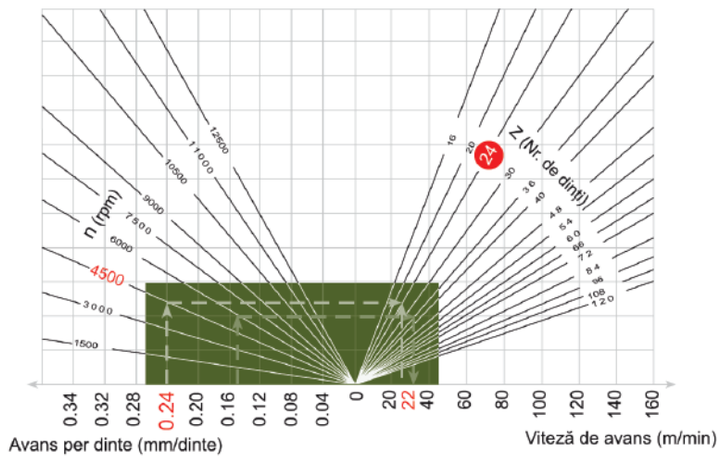
D/n	100	120	140	160	180	200	250	300	350	400	450	500	600 mm
1500	8	9	11	13	14	16	20	24	27	31	35	39	47
2000	10	13	15	17	19	21	26	31	37	42	47	52	63
2500	13	16	18	21	24	26	33	39	46	52	59	65	79
3000	16	19	22	25	28	31	39	47	55	63	71	79	94
4000	21	25	29	33	38	42	52	63	73	84	94	105	126
4500	24	28	33	38	42	47	59	71	82	94	106	118	
5000	26	31	37	42	47	52	65	79	92	105	118		
6000	31	38	44	50	57	63	79	94	110	126			
8000	42	50	59	67	75	84	105	126	147				
9000	47	57	66	75	85	94	118						
10000	52	63	73	75	94	105							
12000 rpm	63	75	88	100	113	126							

Viteza de taiere in m/s.

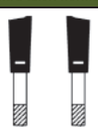
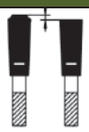
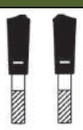
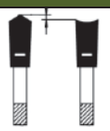
Exemplu: la turatia de 5.000 rpm cu viteza de taiere 79 m/s rezulta o panza cu diametrul de 300 mm

Determinarea numarului de dinti taietori ai panzei in functie de avansul pe dinte, turatie si viteza de avans

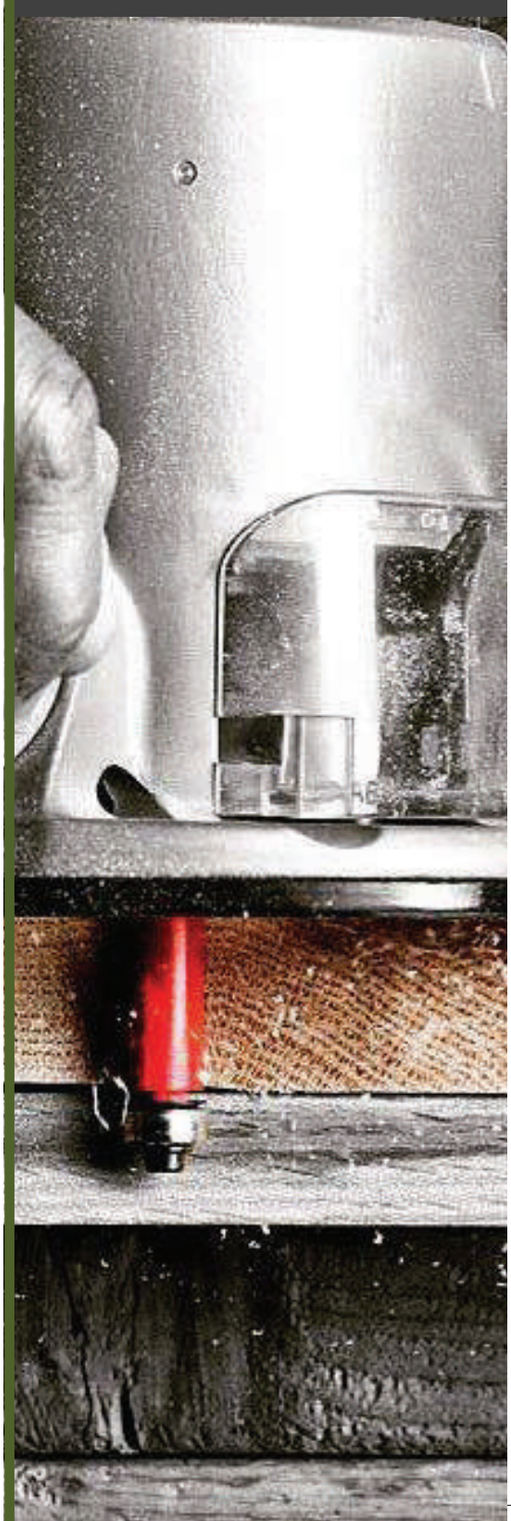
ATENTIE: la aceelasi diametru al panzei circulare numarul mic de dinti se utilizeaza pentru taierea in lungul fibrei lemnului (spintecare, tivire) iar numarul mai mare de dinti taietori pentru taiere transversal pe fibre (taierea la lungime, retezare)



Modalitati de ascutire a fetei de asezare la dintii taietori ai panzelor circulare placate CMS

Ascutire dreapta	Ascutire alternativa pentru taieri normale	Ascutire trapez drept	Ascutire alternativa pentru taieri fine	Ascutire trapez concav	Ascutire conica
					
P	BA	TPP	BAC	GC	C

Panze circulare placate CMS 628
Burghie pentru lemn 634
Freze cu coada 638
Placute amovibile 656
Freze cu alezaj 659
Scule manuale pentru lemn 664
Cutite de rindeluit 668



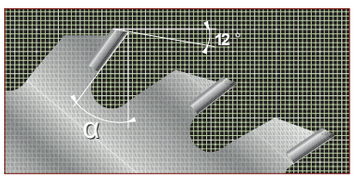
MIZAR

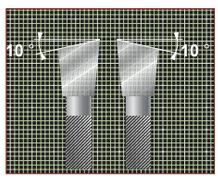
Panza circulara placata CMS pentru taieri multiple in lung de fibra a lemnului

- *pentru debitarea in lungul fibrei a lemnului masiv de esenta moale si tare*
- *utilizare pe utilaje cu panza unica, dubla si multipla*
- *ascutire alternativa cu 2 geluitori periferici din carbura metalica si 2 geluitori interni*
- *dimensiunile cu alezaj de 70 mm sunt prevazute cu 2 canale de pana*

FIRST



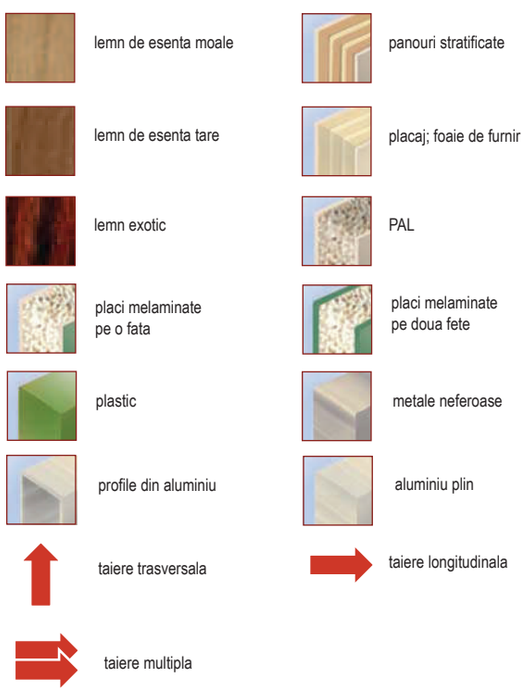






	D	B/b	Z+R	α	d	P/t	
LC4R2502005	250	3.2/2.2	20+4	20°	70	40	**290.59**
LC4R3002408	300	3.2/2.2	24+4	20°	70	60	**326.38**
F3003224430	300	3.2/2.2	24+4	20°	30	60	**326.38**
LC4R3502418	350	3.5/2.5	24+4	20°	70	90	**384.94**
F3503524430	350	3.5/2.5	24+4	20°	30	90	**384.94**
LC4R3502403	350	4.2/2.8	24+4	20°	70	90	**516.85**
F3504224430	350	4.2/2.8	24+4	20°	30	90	**516.85**
LC4R3802405	380	4.2/2.8	24+4	20°	70	110	**595.82**
F3804024430	380	4.2/2.8	24+4	20°	30	110	**595.74**
LC4R4002410	400	4.2/2.8	24+4	20°	70	120	**605.91**
F4004224430	400	4.2/2.8	24+4	20°	30	120	**605.91**
F4504224430	450	4.2/2.8	24+4	20°	30	130	**849.08**
F4504224470	450	4.2/2.8	24+4	20°	70	130	**849.08**

Legenda simboluri

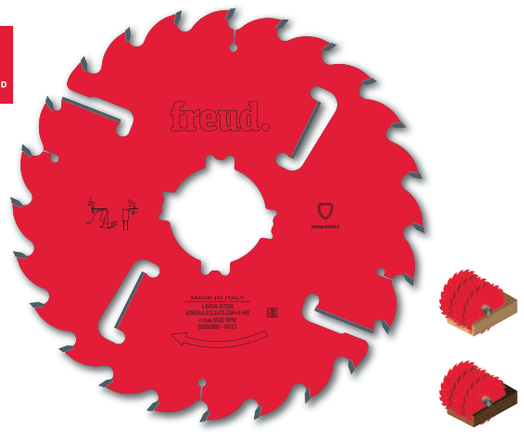


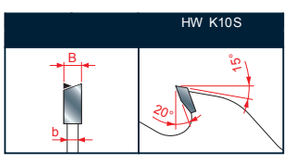
LM04

Panza circulara placata CMS cu dinti geluitori pentru taieri multiple in lung de fibra a lemnului

- *pentru debitarea in lungul fibrei a lemnului masiv de esenta moale si tare*
- *umiditate lemn 15%*
- *utilizare pe utilaje cu panza unica, dubla si multipla*
- *ascutire alternativa 10°*

Perma-SHIELD Coating





freud.

	D	B/b	Z	α	d	
LM04 0300	250	3,2/2,2	20 + 2 + 2	20°	70	**278.30**
LM04 0700	300	3,2/2,2	24 + 2 + 2	20°	70	**324.22**
LM04 0500	300	3,2/2,2	24 + 2 + 2	20°	30	**324.22**
LM04 2400	350	3,5/2,5	24 + 2 + 2	20°	70	**415.45**
LM04 1100	350	3,5/2,5	28 + 2 + 4	20°	30	**437.95**

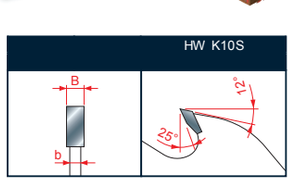
LM05

Panza circulara placata CMS cu dinti geluitori pentru taieri multiple in lung de fibra a lemnului

- *pentru debitarea in lungul fibrei a lemnului masiv de esenta moale, tare si extradur*
- *recomandat in special pentru fabrici de cherestea pentru taierea lemnului cu o rata a umiditatii de peste 10%*
- *utilizare pe utilaje cu panza unica, dubla si multipla*
- *ascutire dreapta*

Perma-SHIELD Coating





freud.

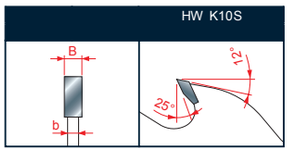
	D	B/b	Z	α	d	
LM05 1600	380	4,0/2,8	20 + 2 + 4	25°	30	**505.44**
LM05 1700	380	4,0/2,8	20 + 2 + 4	25°	70	**505.60**
LM05 1900	400	4,0/2,8	24 + 2 + 4	25°	30	**526.40**
LM05 2100	400	4,0/2,8	24 + 2 + 4	25°	70	**526.40**

LM06

Panza circulara placata CMS cu dinti geluitori pentru taieri multiple in lung de fibra a lemnului

• pentru debitarea in lungul fibrei a lemnului masiv de esenta moale, tare si extradur
• recomandate pentru utilizare in fabricile de cherestea pentru taierea lemnului umed cu un continut ridicat de rasina si o umiditate de peste 10%
• utilizare pe utilaje cu panza unica, dubla si multipla
• ascutire dreapta





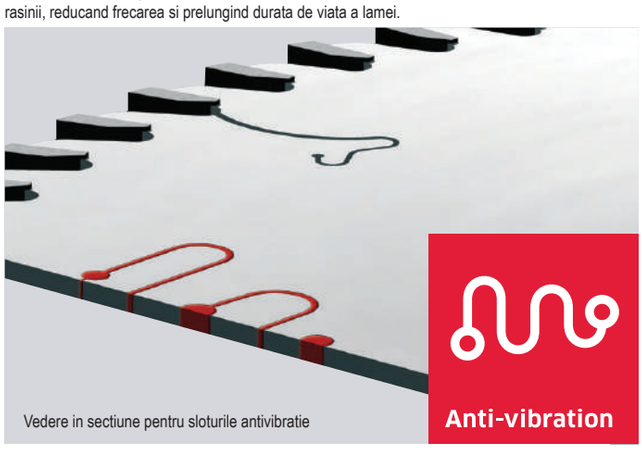
freud.

	D	B/b	Z	α	d	
LM06 1300	350	4,2/3,0	20 + 2 + 4	25°	70	**520.85**



Acoperire cu start de argint I.C.E.

Reducerea frecarii: acoperire cu strat argint I.C.E.
• O acoperire de inalta performanta si anticoroziva pentru mentinerea temperaturii scazute a lamei in timpul procesului de lucru.
• Caracteristica anti-lipire imbunatateste evacuarea aschiei si reduce in mod semnificativ formarea rasinii, reducand frecarea si prelungind durata de viata a lamei.



Vedere in sectiune pentru sloturile antivibratie

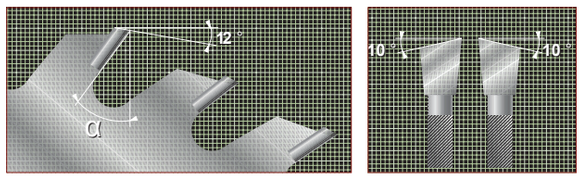
Precizie imbunatatita: sloturi anti-vibratii pentru finisarea perfecta
• Sloturi in corpul panzei taiate cu laser cu tehnologia inovatoare Freud.
• Disponibile si cu umplutura din poliuretan termoplastic, care reduce considerabil vibratiile si minimizeaza zgomotul.

GAMMA IV

Panza circulara placata CMS pentru taierea longitudinala a lemului

• pentru debitarea in lungul fibrei a lemnului masiv de esenta moale si tare
• utilizare pe circulare cu masa pentru formatizat
• ascutire alternativa







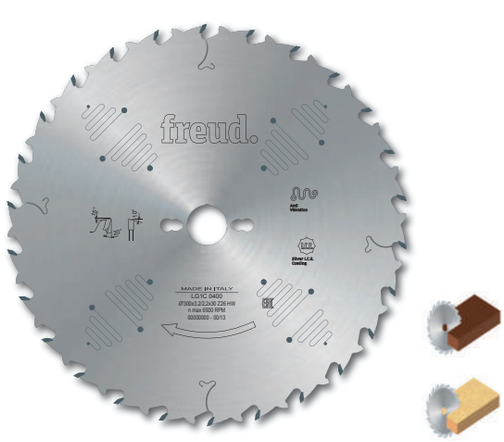
	D	B/b	Z	α	d	
LC2502401	250	3,2/2,2	24	20°	30	**295.87**
LC3002406	300	3,2/2,2	24	20°	30	**308.20**
LC3003601	300	3,2/2,2	36	18°	30	**339.02**
LC3502802	350	3,5/2,5	28	20°	30	**341.79**
LC3504206	350	3,5/2,5	42	18°	30	**352.81**
LC4003202	400	3,8/2,8	32	20°	30	**404.05**
LC4004801	400	3,8/2,8	48	18°	30	**530.10**
LC4503602	450	4,0/3,0	36	20°	30	**678.03**
LC4505404	450	4,0/3,0	54	18°	30	**654.38**
LC5004003	500	4,0/3,0	40	20°	30	**801.31**
LC5006002	500	4,0/3,0	60	18°	30	**936.92**
LC5504401	550	4,0/3,0	44	20°	30	**906.10**
LC6004804	600	4,0/3,0	48	20°	30	**973.90**

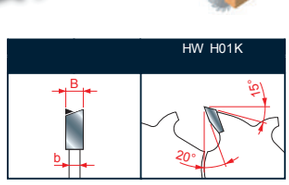
LG1C

Panza circulara placata CMS pentru taierea longitudinala a lemnului masiv

• pentru debitarea longitudinala pe fibra a lemnului masiv de esenta moale si tare
• utilizare pe circulare cu masa pentru formatizat sau multilama
• ascutire alternativa 10° cu unghi de taiere pozitiv

Anti-vibration
Silver I.C.E. Coating





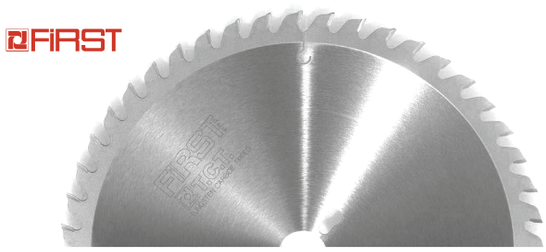
freud.

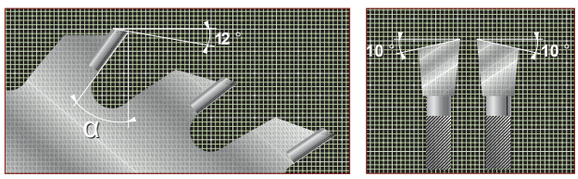
	D	B/b	Z	α	d	
LG1C 1000	350	3,5/2,5	30	20°	30	**349.19**

GAMMA III

Panza circulara placata CMS pentru taierea longitudinala si transversala a lemnului

- *pentru debitarea in lungul si transversal pe fibra a lemnului masiv de esenta moale si tare*
- *pentru debitarea panourilor derivate din lemn si al lemnului stratificat, placaj, furnir*
- *utilizare pe circulare cu masa pentru formatizat*
- *ascutire alternativa*







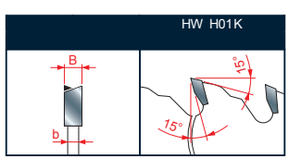
	D	B/b	Z	α	d	
LC2504003	250	3,2/2,2	40	12°	30	**265.67**
LC2504802	250	3,2/2,2	48	10°	30	**275.99**
LC3004802	300	3,2/2,2	48	12°	30	**306.66**
LC3006006	300	3,2/2,2	60	10°	30	**394.49**
LC3505403	350	3,5/2,5	54	12°	30	**363.06**
LC3507201	350	3,5/2,5	72	10°	30	**393.10**
LC4006401	400	3,8/2,8	64	12°	30	**476.01**
LC4008001	400	3,8/2,8	80	10°	30	**510.84**
LC4507201	450	4,0/3,0	72	12°	30	**760.78**
LC5007202	500	4,0/3,0	72	12°	30	**1,084.85**
LC5506005	550	4,0/3,0	60	18°	30	**1,017.05**
LC6007201	600	4,0/3,0	72	12°	30	**1,183.48**

LG2A

Panza circulara placata CMS pentru taierea longitudinala si transversala a lemnului

- *pentru debitarea in lung si transversal pe fibra a lemnului masiv de esenta moale si tare*
- *pentru debitare placi aglomerate si placaj neprelucrat*
- *utilizare pe circulare cu masa pentru formatizat sau portabile*
- *ascutire alternativa cu unghi de taiere pozitiv*





freud.

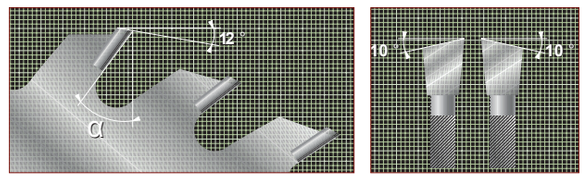
	D	B/b	Z	α	d	
LG2A 1700	250	3,2/2,2	40	15°	30	**243.94**
LG2A 2100	300	3,2/2,2	48	15°	30	**337.94**

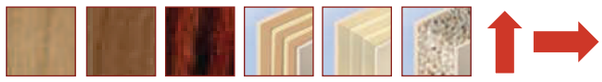
GAMMA II

Panza circulara placata CMS pentru taierea transversala a lemnului

- *pentru debitarea transversal pe fibra a lemnului masiv de esenta moale si tare*
- *pentru debitarea panourilor derivate din lemn si al lemnului stratificat, placaj, furnir*
- *utilizare pe circulare cu masa pentru formatizat*
- *ascutire alternativa*







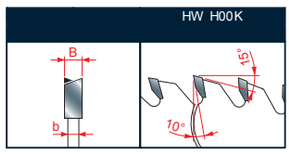
	D	B/b	Z	α	d	
LC2506001	250	3,2/2,2	60	10°	30	**369.84**
LC3007201	300	3,2/2,2	72	10°	30	**419.15**
LC3057201	305	3,2/2,2	72	10°	30	**462.30**
LC3508404	350	3,5/2,5	84	10°	30	**434.71**
LC4009604	400	3,8/2,8	96	10°	30	**659.54**

LG2B

Panza circulara placata CMS pentru taierea transversala a lemnului

- *pentru debitarea transversal pe fibra a lemnului masiv de esenta moale si tare*
- *pentru debitare lemn exotic, placi aglomerate si placaj neprelucrat*
- *utilizare pe circulare cu masa pentru formatizat sau portabile*
- *ascutire alternativa 15° cu unghi de taiere pozitiv*





freud.

	D	B/b	Z	α	d	
LG2B 0700	250	3,2/2,2	60	10°	30	**304.50**
LG2B 1400	350	3,5/2,5	72	10°	30	**384.94**

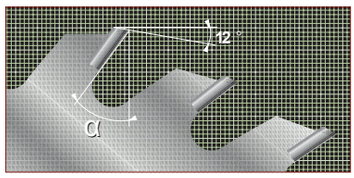
GAMMA I

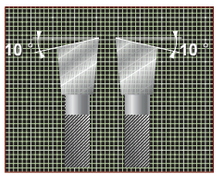
Panza circulara placata CMS pentru taierea transversala a lemnului

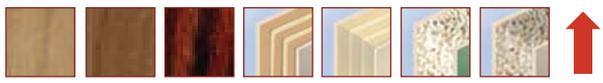
• pentru debitarea transversal pe fibra a lemnului masiv de esenta moale si tare, lemnului exotic,
• pentru debitarea panourilor derivate din lemn si al lemnului stratificat, placaj, furnir, placilor melaminate pe o fata
• utilizare pe circulare cu masa pentru formatizat
• ascutire alternativa

FIRST









	D	B/b	Z	α	d	
LC1504806	150	2,8/1,8	48	10°	30	**265.05**
LC1805602	180	2,8/1,8	56	10°	30	**339.02**
LC2006406	200	3,0/2,0	64	10°	30	**357.51**
LC2508001	250	3,2/2,2	80	10°	30	**347.65**
LC3009605	300	3,2/2,2	96	10°	30	**409.17**
LC3059601	305	3,2/2,2	96	10°	30	**523.93**
LC35010801	350	3,5/2,5	108	10°	30	**490.50**
LC40012003	400	3,8/2,8	120	10°	30	**598.02**

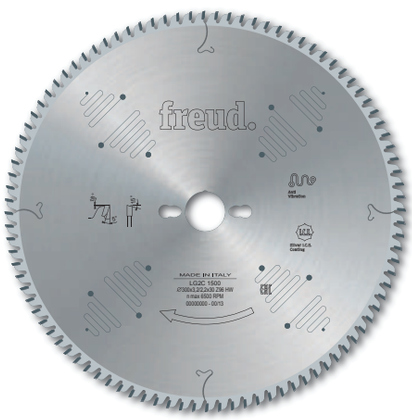
LG2C

Panza circulara placata CMS pentru taierea transversala a lemnului masiv

• pentru debitarea transversala pe fibra a lemnului masiv de esenta moale si tare
• pentru debitare lemn exotic, PAL, compozite termoplastice-lemn, placi MDF laminate pe o parte
• utilizare pe circulare cu masa pentru formatizat sau portabile
• ascutire alternativa 15° cu unghi de taiere pozitiv

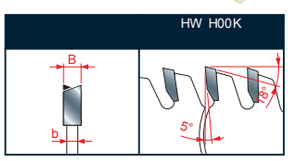
Anti-vibration

Silver I.C.E. Coating





freud.



	D	B/b	Z	α	d	
LG2C 1200	250	3,2/2,2	80	5°	30	**378.31**
LG2C 1500	300	3,2/2,2	96	5°	30	**429.63**

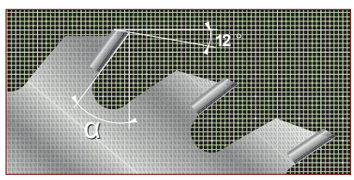
INDUS

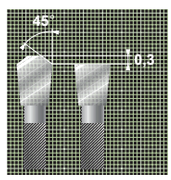
Panza circulara placata CMS pentru formatizarea PAL-ului melaminat pe ambele fete

• utilizata pentru formatizarea PAL-ului melaminat pe ambele fete impreuna cu panzele incizor
• panzele circulare sunt proiectate pentru a realiza o taiere precisa si fina in materiale precum placaj, placi aglomerate, PAL, PAL melaminat,
• sunt utilizate pe circulare de formatizat cu masa orizontala, impreuna cu panza incizor
• ascutire: trapez drept, cu unghi de taiere pozitiv

FIRST









	D	B/b	Z	α	d	
LC2508004	250	3,2/2,2	80	12°	30	**480.79**
LC3009603	300	3,2/2,2	96	12°	30	**560.92**
LC35010807	350	3,5/2,5	108	12°	30	**671.87**

Viteza de taiere recomandata in functie de diametru:

diametru mm	rpm maxim
100	15000
125	13000
150	12000
160	11000
180	10000
200	9000
250	7000
300	6000
350	5000
400	4500
450	4000
500	3500
550	3000
600	2800

Viteza de avans recomandata in functie de material:

material	viteza avans
lemn moale	10/40 m/min
lemn tare	10/30 m/min
placaj	10/20 m/min
materiale plastice	5/10 m/min

Viteza de taiere recomandata in functie de material:

material	viteza taiere
lemn tare	60/90 m/sec
lemn tare	50/70 m/sec
placaj	60/80 m/sec
materiale plastice	25/60 m/sec
aluminiu	20/30 m/sec

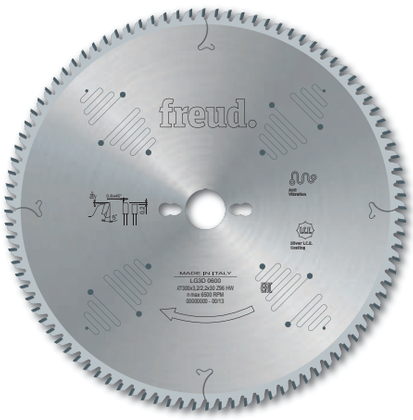
LG3D

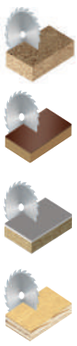
Panza circulara placata CMS pentru taierea transversala a placilor melaminate pe una sau doua fete

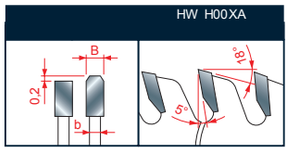
- *pentru debitarea transversala pe fibra a panourilor bilaminate*
- *utilizare pe circulare cu masa pentru formatizat masini orizontale de dimensionare a panourilor*
- *ascutire trapez drept cu unghi de taiere pozitiv*

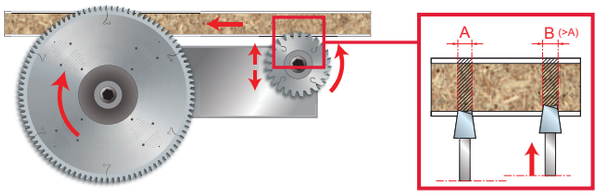
Anti-vibration

Silver I.C.E. Coating





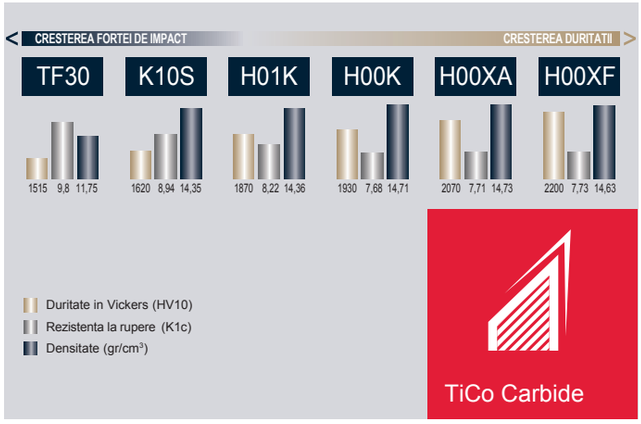




Latimea taierii panzei circulare de baza

freud.

	D	B/b	Z	α	d	
LG3D 0600	300	3,2/2,2	96	5°	30	398.65



Productie proprie de placute din carbura de tungsten Carbide (HW)

- TiCo Carbide reprezinta o formula speciala, carbura foarte compacta de titan cu cobalt, proiectata si fabricata „in-house" de catre Freud.
- Clasele speciale HW sunt amestecate pe baza nevoilor de aplicare si verificate in conformitate cu criterii stricte de calitate.
- Geometriile speciale ale dintilor sunt dezvoltate pentru taieri perfecte.

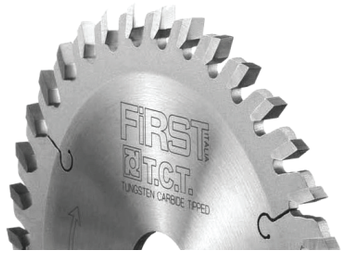
THYCO

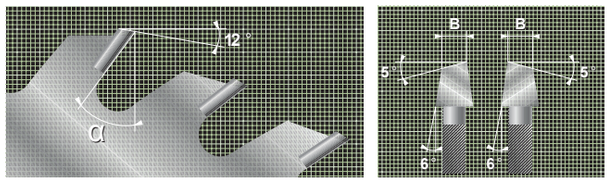
Panza incizor conic

- *panza incizor cu dinti conici pentru circulare de formatizat PAL*
- *utilizata pentru formatizarea PAL-ului si MDF-ului melaminat pe ambele fete,*

pe circular de formatizat cu masa orizontala ce permite ajustarea pe verticala a inaltimii de taiere

FIRST







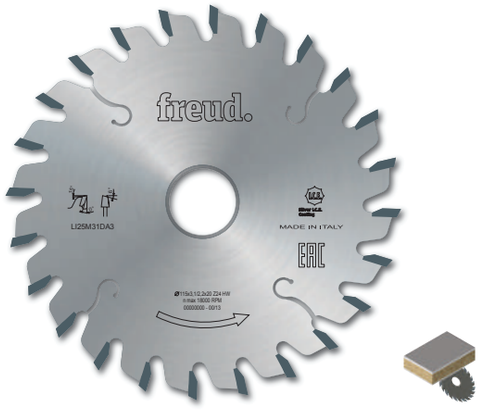
	D	B/b	Z	α	d	
LC1002010	100	3,1/4,3	20	10°	20	289.70
LC1202410	120	3,1/4,3	24	10°	20	302.03
LC1252420	125	3,1/4,3	24	10°	20	302.03

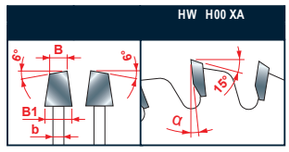
LI25M

Panza incizor conic

- *utilizata pentru formatizarea PAL-ului melaminat pe ambele fete*
- *utilaje: circular de formatizat cu masa orizontala ce permite ajustarea pe verticala a inaltimii de taiere*
- *ascutire: trapez, cu unghi de taiere pozitiv*
- *material: PAL sau MDF melaminat pe ambele fete*

Silver I.C.E. Coating





freud.

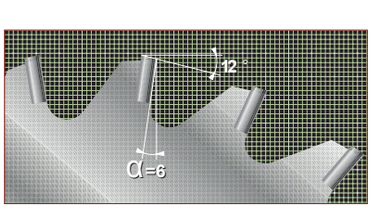
	D	B/b	Z	α	d	
LI25M31BC3	100	3,1/4,3	20	10°	20	267.05
LI25M31EA3	120	3,1/4,3	24	10°	20	256.73
LI25M31FA3	125	3,1/4,3	24	10°	20	267.05

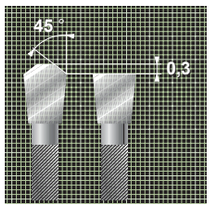
ALGOR (+)

Panza circulara placata CMS pentru aluminiu si neferoase

• aceste panze sunt ideale pentru debitarea profilelor si barelor de aluminiu sau aliajelor neferoase
• ascutire: trapez drept, cu unghi de taiere pozitiv
• recomandate pentru utilaje actionate automat











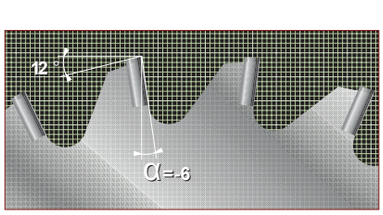
	D	B/b	Z	α	d	
LC2508003	250	3,2/2,2	80	6°	30	**388.33**
LC3009602	300	3,2/2,4	96	6°	30	**536.26**
LC35010803	350	3,4/2,8	108	6°	30	**641.05**
LC40012007	400	3,6/2,8	120	6°	30	**813.64**

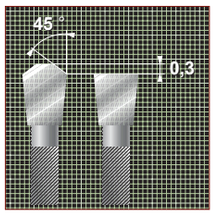
ALGOR (-)

Panza circulara placata CMS pentru aluminiu si neferoase

• aceste panze sunt ideale pentru debitarea profilelor si barelor de aluminiu sau aliajelor neferoase
• ascutire: Trapez drept, cu unghi de taiere negativ
• recomandate pentru utilaje actionate manual









	D	B/b	Z	α	d	
LC2508002	250	3,2/2,2	80	-6°	30	**410.67**
LC3009604	300	3,2/2,4	96	-6°	30	**536.26**
LC35010805	350	3,4/2,8	108	-6°	30	**641.05**
LC40012001	400	3,6/2,8	120	-6°	30	**813.64**

3100 / 3101

Burghie elicoidale cilindrice scurte pentru lemn, forma B, cu doua taisuri si varf de centrare

• burghie elicoidale cilindrice scurte pt. lemn, forma B, cu doua taisuri si varf de centrare conf DIN 1412 E, executie din otel crom-vanadiu, laminate si tratate termic, brunate, cu suprafata cilindrica / fatete rectificate.
• taiere pe dreapta. Unghiul spirei 20-30° .
• la diametre mai mari de 10 mm au coada redusa, de 10 mm si la diametre mai mari de 20 au coada redusa, de 13 mm .
• destinate pentru gaurire in lemn de esenta moale si tare, lemn stratificat si panouri din lemn fara strat de acoperire, PAL .
• se pot folosi atat pe masini de gaurit / utilaje stationare / fixe, cat si pe masini de gaurit portabile, electrice sau pneumatice



BOC BOHRCRAFT

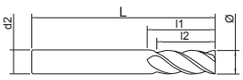
	DIM.	LT	LU	Coada	AMB	
lungime normala						
31000700300	3,00	61	33	3	1	**5.55**
31000700400	4,00	74	43	4	1	**5.55**
31000700500	5,00	86	52	5	1	**6.01**
31000700600	6,00	93	57	6	1	**6.47**
31000700700	7,00	109	69	7	1	**6.63**
31000700800	8,00	117	75	8	1	**8.48**
31000700900	9,00	120	81	9	1	**10.02**
31000701000	10,00	133	87	10	1	**10.79**
31000701100	11,00	142	89	10	1	**13.10**
31000701200	12,00	151	96	10	1	**15.87**
31000701300	13,00	151	96	10	1	**17.57**
31000701400	14,00	151	96	10	1	**19.11**
31000701500	15,00	160	100	10	1	**22.04**
31000701600	16,00	160	100	10	1	**27.28**
31000701800	18,00	180	120	10	1	**43.46**
31000702000	20,00	200	130	10	1	**59.48**
lungime totala 250 mm						
31010700600	6,00	250	155	6	1	**26.66**
31010700800	8,00	250	155	8	1	**28.20**
31010701000	10,00	250	155	10	1	**31.28**
31010701200	12,00	250	155	10	1	**39.14**
31010701400	14,00	250	155	10	1	**45.61**
31010701600	16,00	250	155	10	1	**57.63**
31010701800	18,00	250	155	10	1	**70.58**
31010702000	20,00	250	155	10	1	**82.29**
lungime totala 400 mm						
31010700840	8,00	400	340	8	1	**45.61**
31010701040	10.00	400	340	10	1	**48.23**
31010701240	12,00	400	340	10	1	**53.16**
31010701440	14.00	400	340	10	1	**64.88**
31010701640	16,00	400	340	10	1	**69.04**
31010702040	20,00	400	340	10	1	**95.54**

8236671

Freze CMS integral Z 2

• unghiul spirei: 30°
• numar de dinti: Z2
• toleranta: h9





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | Z2 | 25° | h9

	Ø	d2	L	l2	
82366710600	6,0	6,0	60	20	**228.45**
82366710800	8,0	8,0	60	22	**316.12**
82366711000	10,0	10,0	72	30	**409.87**
82366711200	12,0	12,0	76	32	**513.24**

1086402

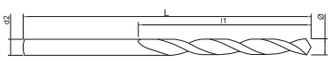
Burghie elicoidale cilindrice scurte pt. lemn, forma E, cu doua taisuri si varf de centrare, HSS, norma TIVOLY, SLR®

• burghie elicoidale cilindrice scurte pt. lemn, forma E, cu doua taisuri si varf de centrare norma TIVOLY, SLR®
• executie din HSS, tratate termic, rectificate, cu tratament de suprafata gold
• taiere pe dreapta, unghiul spirei 20 -:- 30°, profilul spirei special cu un volum mare al canalului de evacuare.
• ascutirea cu doua taisuri si varf de centrare conf DIN 1412 E,
• tija gradata pentu controlul adancimii gauririi
• destinate pentru gaurire in lemn de esenta moale si tare, lemn stratificat si panouri din lemn fara strat de acoperire, PAL .
• se pot folosi atat pe masini de gaurit / utilaje stationare / fixe, cat si pe masini de gaurit portabile, electrice sau pneumatice



TIVOLY





HSS | GOLD TREATED | TIVOLY NORM | GRADUATION | SPEED POINT | SPECIAL TYPE FLUTE

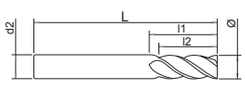
	Ø	d2	L	l1	
10864020200	2,0	2,0	55	23	**38.52**
10864020250	2,5	2,5	55	23	**47.77**
10864020300	3,0	3,0	61	33	**56.25**
10864020400	4,0	4,0	75	43	**57.17**
10864020500	5,0	5,0	86	52	**70.27**
10864020600	6,0	6,0	93	57	**76.28**
10864020700	7,0	7,0	109	69	**89.84**
10864020800	8,0	8,0	117	75	**94.77**
10864020900	9,0	9,0	125	81	**107.25**
10864021000	10,0	10,0	133	87	**118.19**
10864021200	12,0	12,0	151	101	**166.43**

8236651

Freze CMS integral Z 1

• unghiul spirei: 30°
• numar de dinti: Z1
• toleranta: h9





TIVOLY

HM CARB | BRIGHT UNCOATED | TIVOLY NORM | Z1 | 25°

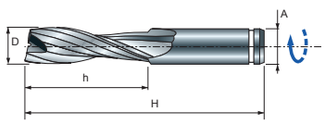
	Ø	d2	L	l2	
82366510600	6,0	6,0	60	20	**261.47**
82366510800	8,0	8,0	60	22	**351.94**
82366511000	10,0	10,0	72	30	**452.10**
82366511200	12,0	12,0	76	32	**502.66**

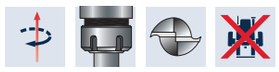
SCH2UF

Freza din carbura solida Z-2 cu eliminarea aschiei in sus

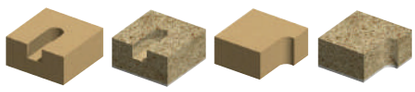
- *conceput pentru: masini de frezat CNC pentru aplicatii general si finisaj perfect*
- *potrivit pentru: formatizat si gaurit*
- *SCH2U: spirala elicoidala, eliminare aschiei in sus pentru o finisare optima a panoului pe partea inferioara*





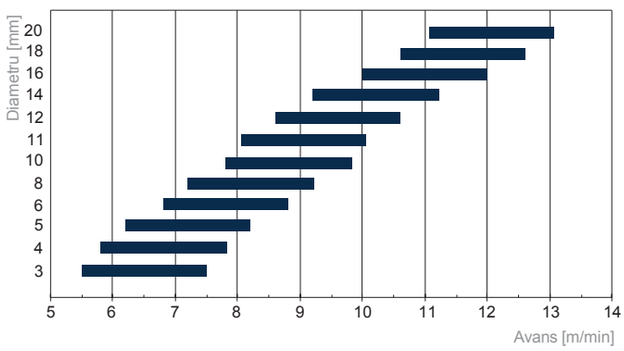


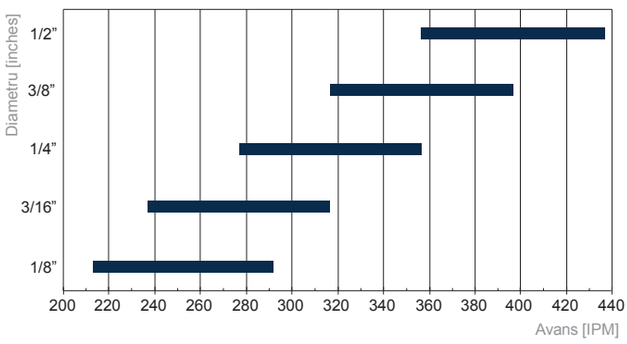
freud.



	D	h	H	A	Z	rpm max.	
SCH2UFN135R	3	13	50	8	2	30.000	**183.38**
SCH2UFN140R	4	16	50	8	2	30.000	**188.77**
SCH2UFN145R	5	17	50	8	2	30.000	**204.95**
SCH2UFN150R	6	25	60	8	2	30.000	**204.95**
SCH2UFN155R	7	32	80	8	2	30.000	**231.92**
SCH2UFN228R	8	32	80	8	2	30.000	**237.31**
SCH2UFN232R	8	42	90	8	2	30.000	**280.46**
SCH2UFN244R	10	42	100	10	2	30.000	**323.61**
SCH2UFN248R	10	52	100	10	2	30.000	**345.18**
SCH2UFN256R	12	32	80	12	2	30.000	**388.33**
SCH2UFN260R	12	42	90	12	2	30.000	**409.90**
SCH2UFN264R	12	52	100	12	2	30.000	**420.69**
SCH2UFN276R	14	52	100	14	2	25.000	**593.28**
SCH2UFN280R	16	52	100	16	2	25.000	**674.18**
SCH2UFN284R	18	52	110	18	2	25.000	**852.16**
SCH2UFN288R	20	52	120	20	2	25.000	**1,035.54**
SCH2UFN292R	20	72	130	20	2	25.000	**1,164.98**

Viteza recomandata pentru: lemn moale - 18.000 RPM.
Adancimea de taiere egala cu diametrul de taiere



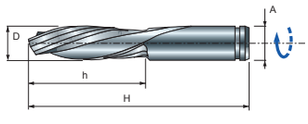


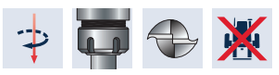
SCH2DF

Freza din carbura solida Z-2 cu eliminarea aschiei in jos

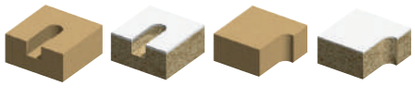
- *conceput pentru: masini de frezat CNC pentru aplicatii general si finisaj perfect*
- *potrivit pentru: formatizat si gaurit*
- *SCH2D: spirala elicoidala, eliminare aschiei in sus pentru o finisare optima a panoului pe partea superioara*







freud.



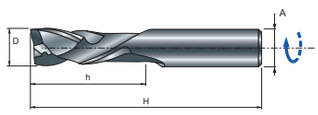
	D	h	H	A	Z	rpm max.	
SCH2DFN135R	3	13	50	8	2	30.000	**188.77**
SCH2DFN140R	4	16	50	8	2	30.000	**194.16**
SCH2DFN145R	5	17	50	8	2	30.000	**210.34**
SCH2DFN150R	6	25	60	8	2	30.000	**210.34**
SCH2DFN155R	7	32	80	8	2	30.000	**237.31**
SCH2DFN228R	8	32	80	8	2	30.000	**242.70**
SCH2DFN232R	8	42	90	8	2	30.000	**285.85**
SCH2DFN244R	10	42	90	10	2	30.000	**323.61**
SCH2DFN248R	10	52	100	10	2	30.000	**345.18**
SCH2DFN256R	12	32	80	12	2	30.000	**388.33**
SCH2DFN260R	12	42	90	12	2	30.000	**409.90**
SCH2DFN264R	12	52	100	12	2	30.000	**420.69**
SCH2DFN276R	14	52	100	14	2	25.000	**604.07**
SCH2DFN280R	16	52	100	16	2	25.000	**679.57**
SCH2DFN284R	18	52	110	18	2	25.000	**852.16**
SCH2DFN288R	20	52	120	20	2	25.000	**1,035.54**
SCH2DFN292R	20	72	130	20	2	25.000	**1,164.98**

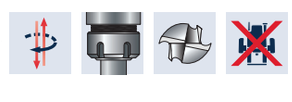
SCH2XFN

Freza din carbura solida Z-2 cu eliminarea aschiei in jos, coada cilindrica 8 mm

- *conceput pentru: masini de frezat CNC pentru aplicatii general si finisaj perfect*
- *potrivit pentru: formatizat, gaurit si nesting*
- *SCH2D: spirala elicoidala, eliminarea aschiei in sus pentru o finisare optima a panoului pe partea inferioara si superioara*







freud.



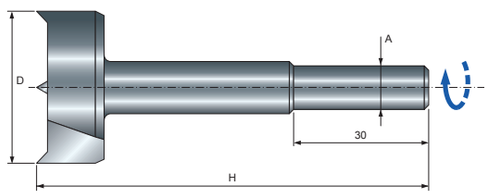
	D	h	H	A	hUP	Z	rpm max.	
SCH2XFN410R	8	32	70	8	10	2+2	30.000	**280.46**
SCH2XFN350R	10	32	80	10	5	2+2	30.000	**345.18**
SCH2XFN370R	12	42	100	12	5	2+2	30.000	**463.84**
SCH2XFN444R	16	35	90	16	14	2+2	25.000	**711.93**
SCH2XFN450R	18	55	110	20	24	2+2	25.000	**1,003.18**
SCH2XFN455R	20	55	110	20	30	2+2	25.000	**1,046.33**

3250

Burghiu de precizie gauri mari, cu coada cilindrica

- *cu varf de centrare, doua muchii de taiere si o lama de taiere pe circumferinta*
- *taiere pe dreapta*
- *varianta forjata*
- *pentru gauri de precizie in lemn si distrugerea nodurilor*





	D	A	H	Z	
3250 05 00800	8,0	8	90	2+2	**34.52**
3250 05 01000	10,0	8	90	2+2	**36.06**
3250 05 01200	12,0	8	90	2+2	**38.37**
3250 05 01400	14,0	8	90	2+2	**39.91**
3250 05 01500	15,0	8	90	2+2	**42.22**
3250 05 01600	16,0	8	90	2+2	**43.30**
3250 05 01800	18,0	8	90	2+2	**46.69**
3250 05 02000	20,0	8	90	2+2	**48.85**
3250 05 02200	22,0	8	90	2+2	**51.78**
3250 05 02400	24,0	8	90	2+2	**54.24**
3250 05 02500	25,0	8	90	2+2	**57.02**
3250 05 02600	26,0	8	90	2+2	**57.94**
3250 05 02800	28,0	8	90	2+2	**61.95**
3250 05 03000	30,0	8	90	2+2	**64.57**
3250 05 03200	32,0	10	90	2+2	**67.96**
3250 05 03500	35,0	10	90	2+2	**75.82**
3250 05 03800	38,0	10	90	2+2	**85.06**
3250 05 04000	40,0	10	90	2+2	**88.30**
3250 05 04500	45,0	10	90	2+2	**102.32**
3250 05 05000	50,0	10	90	2+2	**120.97**

FB 5

Set burghie de precizie gauri mari, cu coada cilindrica

- *cu varf de centrare, doua muchii de taiere*
- *taiere pe dreapta*
- *varianta forjata*
- *pentru gauri de precizie in lemn*



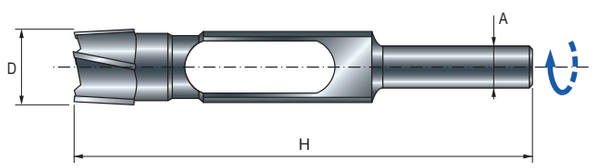
	D	H	
3250 14 50005	5	15,0-30,0 / 5 piese	**398.34**
		3052 (15 / 20 / 25 / 30 / 35 mm)	

3650

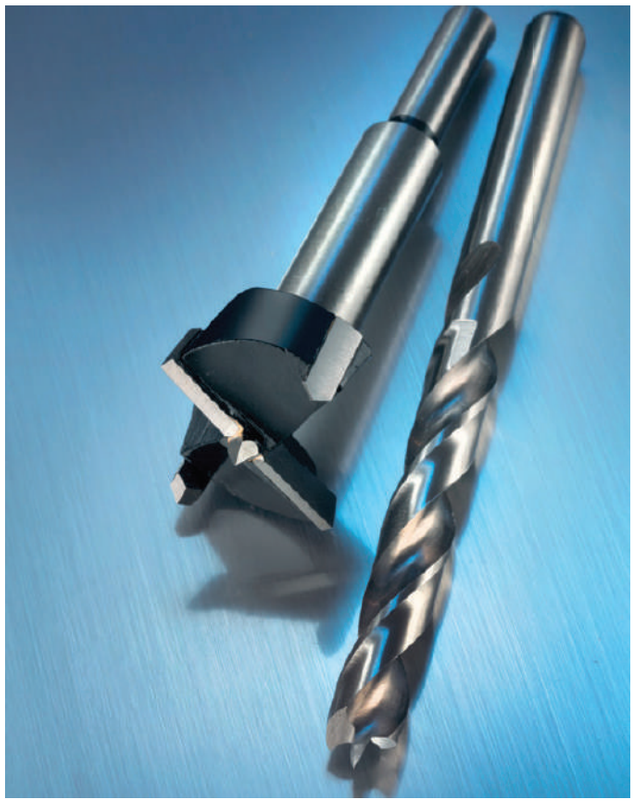
Burghiu pentru dopuri cu coada cilindrica

- *taiere pe dreapta*
- *varianta forjata*
- *pentru dopuri de lemn*





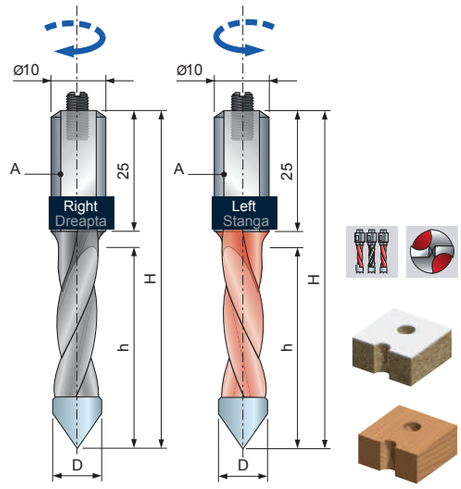
	D	A	H	Z	
3650 05 00800	8,0	11	140	4	**167.20**
3650 05 01000	10,0	11	140	4	**170.59**
3650 05 01200	12,0	13	140	4	**182.61**
3650 05 01500	15,0	13	140	4	**217.28**
3650 05 01600	16,0	13	140	4	**233.61**
3650 05 02000	20,0	13	140	5	**265.82**
3650 05 02200	22,0	13	140	5	**291.71**
3650 05 02500	25,0	13	140	5	**301.42**
3650 05 02600	26,0	13	140	5	**328.08**
3650 05 03000	30,0	13	140	5	**349.80**
3650 05 03500	35,0	16	160	5	**389.41**
3650 05 04000	40,0	16	160	6	**490.19**



PF10MD - PF10MS

Burghiu placat CMS pentru gauri strapunse

- *pentru masini de gaurit multiplu.*
- *utilizate pentru realizarea gaurilor strapunse in lemn sau PAL melaminat*
- *placuta cu varf de centrare din carbura solida*
- *surub M5x10 mm de reglaj pe coada burghiului*
- *coada cilindrica aplatizata cu dimensiunea de 10x25 mm*



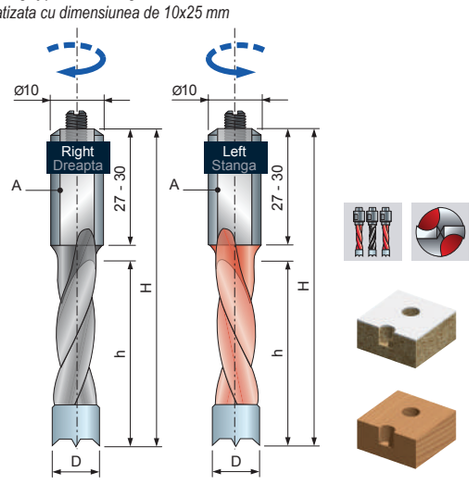
freud.

	D	h	H	A	Z	sens	
PF10MD AC3	5	35	70	10x25	2	dreapta	95.23
PF10MD BC3	6	35	70	10x25	2	dreapta	101.94
PF10MD CC3	7	35	70	10x25	2	dreapta	107.48
PF10MD DC3	8	35	70	10x25	2	dreapta	104.94
PF10MD EC3	10	35	70	10x25	2	dreapta	122.05
PF10MD GC3	12	35	70	10x25	2	dreapta	143.31
PF10MS AC3	5	35	70	10x25	2	stanga	95.23
PF10MS BC3	6	35	70	10x25	2	stanga	101.94
PF10MS CC3	7	35	70	10x25	2	stanga	107.48
PF10MS DC3	8	35	70	10x25	2	stanga	104.94
PF10MS EC3	10	35	70	10x25	2	stanga	121.35
PF10MS GC3	12	35	70	10x25	2	stanga	143.31

PF06MD - PF06MS

Burghiu placat CMS ptr gauri infundate

- *pentru masini de gaurit multiplu.*
- *utilizate pentru realizarea gaurilor oprite (infundate) in lemn sau PAL melaminat*
- *placuta cu varf de centrare din carbura solida*
- *surub M5x10 mm de reglaj pe coada burghiului*
- *coada cilindrica aplatizata cu dimensiunea de 10x25 mm*



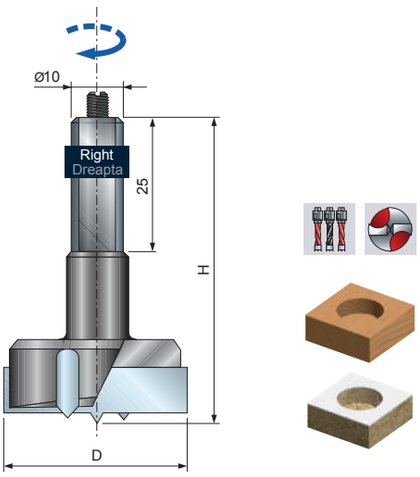
freud.

	D	h	H	A	Z	sens	
PF06MD AC3	5	35	70	10x30	2	dreapta	71.42
PF06MD BC3	6	35	70	10x30	2	dreapta	75.82
PF06MD CC3	7	35	70	10x30	2	dreapta	91.30
PF06MD DC3	8	35	70	10x30	2	dreapta	80.21
PF06MD EC3	9	35	70	10x30	2	dreapta	107.95
PF06MD FC3	10	35	70	10x30	2	dreapta	92.92
PF06MD GC3	12	35	70	10x30	2	dreapta	110.72
PF06MD HC3	14	35	70	10x30	2	dreapta	154.87
PF06MD IC3	15	35	70	10x30	2	dreapta	162.27
PF06MD KC3	16	35	70	10x30	2	dreapta	186.54
PF06MS AC3	5	35	70	10x30	2	stanga	71.42
PF06MS BC3	6	35	70	10x30	2	stanga	75.82
PF06MS CC3	7	35	70	10x30	2	stanga	91.30
PF06MS DC3	8	35	70	10x30	2	stanga	80.21
PF06MS EC3	9	35	70	10x30	2	stanga	107.95
PF06MS FC3	10	35	70	10x30	2	stanga	92.92
PF06MS GC3	12	35	70	10x30	2	stanga	110.72
PF06MS HC3	14	35	70	10x30	2	stanga	154.87
PF06MS IC3	15	35	70	10x30	2	stanga	162.27
PF06MS KC3	16	35	70	10x30	2	stanga	186.54

PC04MD

Burghiu precizie placat CMS pentru gauri mari

- *pentru masini de gaurit multiplu*
- *utilizate pentru realizarea gaurilor pentru balamale sau gaurilor oprite (infundate) in lemn sau PAL melaminat*
- *placuta cu varf de centrare din carbura solida*
- *surub M5x10 mm de reglaj pe coada burghiului*
- *coada cilindrica aplatizata cu dimensiunea de 10x25 mm*



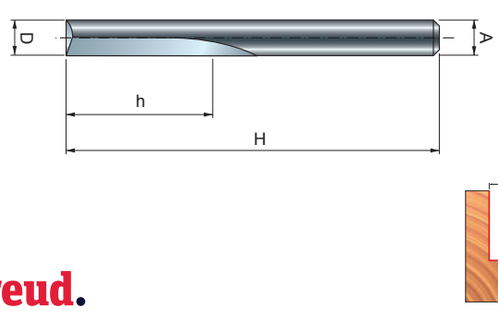
freud.

	D	H	A	Z	
PC04MD 123	12	57,5	10x25	2+2	142.85
PC04MD 143	14	57,5	10x25	2+2	142.85
PC04MD 153	15	57,5	10x25	2+2	157.87
PC04MD 163	16	57,5	10x25	2+2	159.72
PC04MD 183	18	57,5	10x25	2+2	163.65
PC04MD 203	20	57,5	10x25	2+2	171.05
PC04MD 223	22	57,5	10x25	2+2	173.36
PC04MD 253	25	57,5	10x25	2+2	168.97
PC04MD 263	26	57,5	10x25	2+2	173.36
PC04MD 303	30	57,5	10x25	2+2	171.97
PC04MD 353	35	57,5	10x25	2+2	176.37
PC04MD 383	38	57,5	10x25	2+2	242.70
PC04MD 403	40	57,5	10x25	2+2	236.70
PC04MD 503	50	57,5	10x25	2+2	744.30
PC04MD 603	60	57,5	10x25	2+2	887.61

04-

Freza din carbura solida, cu doua muchii drepte

- *material prelucrat: placaj, lemn masiv.*
- *se pot utiliza atat pe CNC, cat si pe masini portabile de frezat*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*



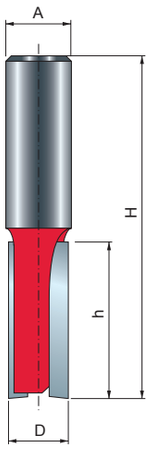
freud.

	D	h	H	A	Z	rpm max.	
04-09908P	3	9,5	44,5	8	2	24000	107.01
04-10108P	4	15,8	44,5	8	2	24000	126.73
04-11308P	5	12,7	50,8	8	2	24000	109.96
04-11008P	6	25,4	76,2	8	2	24000	163.71

04-, MM-

Freza cu coada, cilindrico frontala, placata CMS Z2

• freza cu coada pentru realizarea ulucelor, profilelor drepte si a indreptarilor de cant





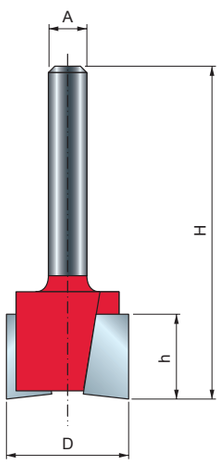
freud.

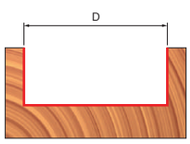
	D	h	H	A	Z	rpm max.	
04-11208P	7	25,4	63,5	8	2	24000	**95.66**
04-11908P	8	31,8	70	8	2	24000	**100.10**
MM-11008P	10	31,8	69	8	2	24000	**101.09**
04-13708P	12	31,8	68	8	2	24000	**105.03**
04-14508P	14	31,8	68,2	8	2	24000	**109.96**
04-14708P	15	31,8	68,2	8	2	24000	**111.44**
04-15008P	16	31,8	66	8	2	24000	**111.94**
04-15108P	18	20	52	8	2	24000	**107.01**
04-15508P	20	19	56	8	2	24000	**107.99**
04-15708P	22	19	51	8	2	24000	**126.24**
04-15808P	24	20	52	8	2	24000	**144.98**
04-15908P	25	19	56	8	2	24000	**135.61**

16-

Freza cu coada, cilindrico frontala, pentru mortezat, placata CMS Z2

• material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.
• se pot utiliza atat pe CNC, cat si pe masini portabile de frezat
• pentru adancimi de frezare mari, se recomanda trecerile multiple prin material





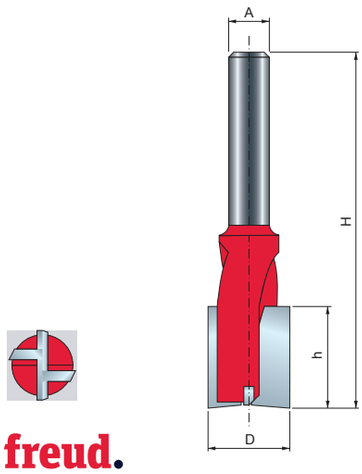
freud.

	D	h	H	A	Z	rpm max.	
16-10008P	12,7	12,5	50,8	8	2	24000	**77.91**
16-10408P	19	12,5	50,8	8	2	24000	**87.77**

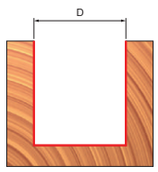
17-

Freza cu coada, cilindrico frontala, cu varf de centrare, placata CMS Z2

• material prelucrat: materiale pe baza de lemn, laminate, placaj, lemn masiv.
• se pot utiliza pe masini portabile de frezat
• pentru adancimi de frezare mari, se recomanda trecerile multiple prin material







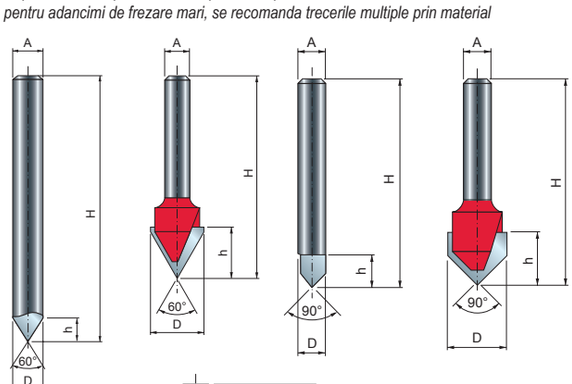
freud.

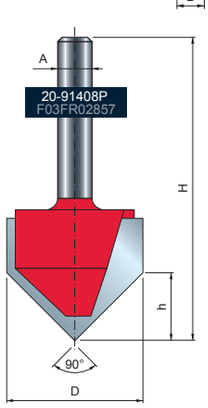
	D	h	H	A	Z	rpm max.	
17-10008P	16	45	85	8	2+1	24000	**244.09**
17-10208P	18	18	70	8	2+1	24000	**233.74**
17-10408P	20	18	70	8	2+1	24000	**267.27**
17-10608P	22	25	70	8	2+1	24000	**233.24**

20-

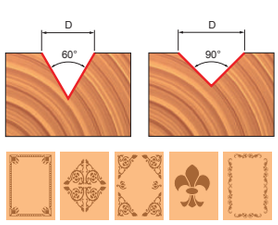
Freza profilata in V pentru gravura, placata CMS, cu coada, Z1, Z2, Z3

• material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.
• se pot utiliza atat pe CNC, cat si pe masini portabile de frezat
• pentru adancimi de frezare mari, se recomanda trecerile multiple prin material





■ Carbura solida



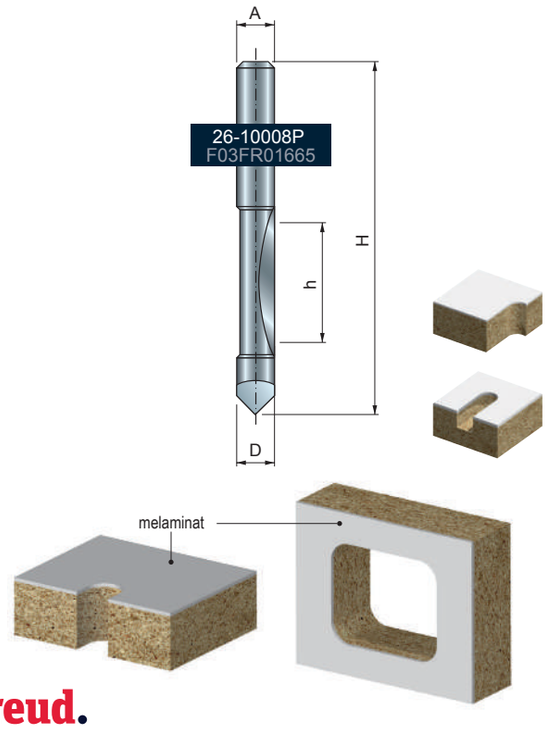
freud.

	D	h	H	A	α	Z	rpm max.	
20-16008P ■	8	8	70	8	60°	1	24000	**130.18**
20-15208P	12,7	12,7	49,2	8	60°	2	24000	**94.18**
20-15408P	12,7	11	57,3	8	60°	3	24000	**198.23**
20-10008P ■	6	6	38,1	8	90°	1	24000	**110.95**
20-10208P	9,5	10	44,5	8	90°	2	24000	**87.28**
20-10408P	12,7	10	44,5	8	90°	2	24000	**89.25**
20-91408P	31,7	16	51	8	90°	2	24000	**165.69**

26-

Freza pentru decupat placata CMS Z1, cu coada

- *material prelucrat: materiale pe baza de lemn, laminate, placaj, lemn masiv.*
- *se pot utiliza pe masini portabile de frezat*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*



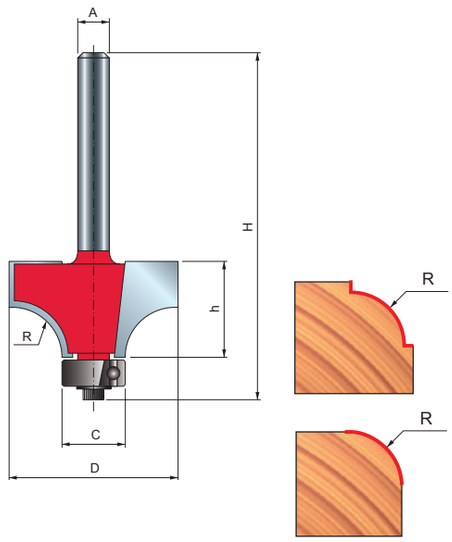
freud.

	D	h	H	A	Z	rpm max.	
26-10008P	8	19	75	8	1	24000	**89.75**

34-

Freza profilata 1/4 concav placata CMS Z-2 cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, laminate, placaj, lemn masiv.*
- *se pot utiliza pe masini portabile de frezat*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*



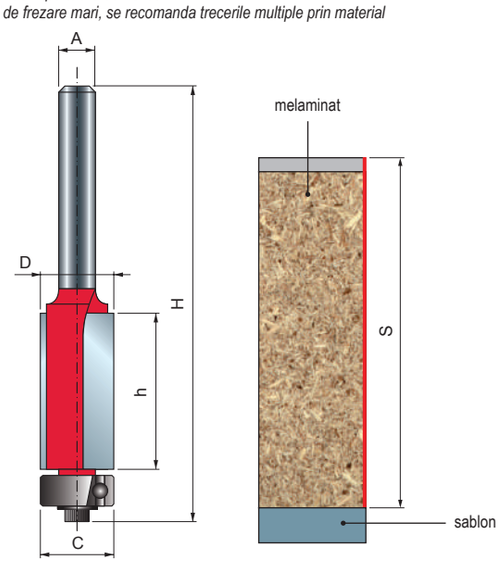
freud.

	D	h	H	A	C	R	Z	rpm max.	
34-10008P	15,8	12,7	54,9	8	12,7	54,9	2	24000	**105.53**
34-10108P	16,7	12,7	54,9	8	12,7	54,9	2	24000	**104.05**
34-10308P	18,7	12,7	54,9	8	12,7	54,9	2	24000	**126.73**
34-10408P	19	12,7	55,2	8	12,7	55,2	2	24000	**100.60**
34-10808P	22,2	12,7	54,9	8	12,7	54,9	2	24000	**106.02**
34-11008P	25,4	12,7	55,2	8	12,7	55,2	2	24000	**115.88**
34-11208P	28,6	12,7	55,2	8	12,7	55,2	2	24000	**118.35**
34-11408P	31,8	17,5	58	8	17,5	58	2	24000	**131.66**
34-11608P	38,1	19,05	60,7	8	19,05	60,7	2	24000	**142.51**
34-12708P	44,5	22,2	63,9	8	22,2	63,9	2	24000	**185.90**

42-

Freza de cant placata CMS Z-2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, laminate, placaj, lemn masiv.*
- *se pot utiliza pe masini portabile de frezat*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*



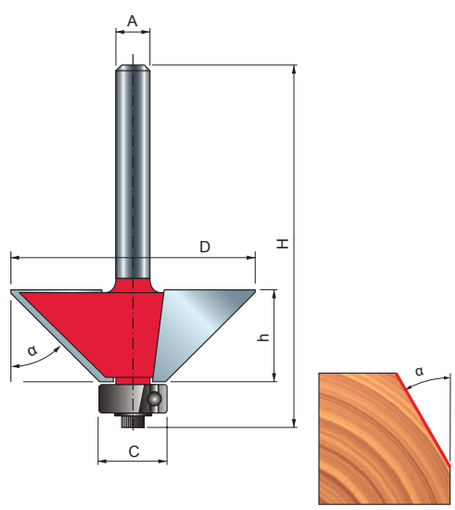
freud.

	D	h	H	A	C	S	Z	rpm max.	
42-10008P	9,5	25,4	71,5	8	9,5	25,4	2	24000	**98.62**
42-11508P	12,7	40	84	8	12,7	40	2	24000	**144.48**

40-

Freza unghiulara placata CMS placata CMS Z-2 cu coada si inel copier inferior

- *material prelucrat: materiale pe baza de lemn, laminate, placaj, lemn masiv.*
- *se pot utiliza pe masini portabile de frezat*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*



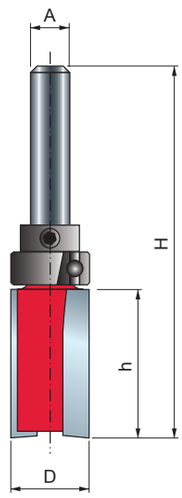
freud.

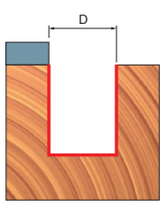
	D	h	H	A	C	α	Z	rpm max.	
40-10208P	23,6	12,7	54,9	8	12,7	25°	2	24000	**111.44**
40-10508P	31	9,5	52	8	12,7	45°	2	24000	**132.65**
40-10408P	33	11,5	54	8	12,7	45°	2	24000	**124.26**
40-10608P	44	18,5	61	8	12,7	45°	2	24000	**160.26**

50-

Freza de cant placata CMS Z-2, cu coada si rulment copier superior

- *material prelucrat: materiale pe baza de lemn, laminate, placaj, lemn masiv.*
- *se pot utiliza pe masini portabile de frezat*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*





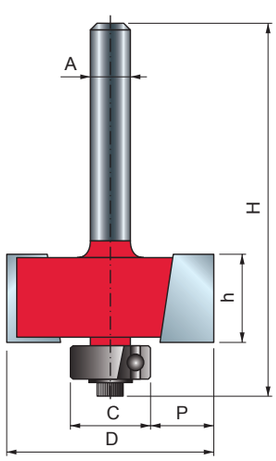
freud.

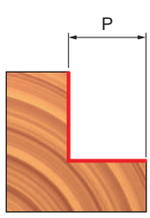
	D	h	H	A	C	Z	rpm max.	
50-10308P	16	20	60	8	16	2	24000	**156.81**
50-10808P	22	20	60	8	22	2	24000	**163.22**

32-

Freza pentru falt, placata CMS Z-2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza pe masini portabile de frezat cu sau fara masa*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*





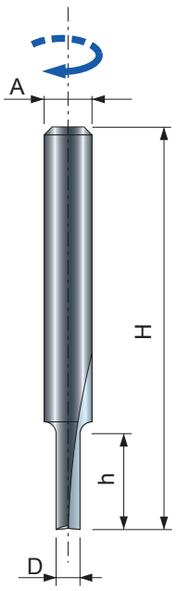
freud.

	D	h	H	A	C	P	Z	rpm max.	
32-10008P	31,8	12,7	55,2	8	12,7	9,5	2	24000	**125.25**
32-50008P	34,9	12,7	55,2	8	12,7	11,1	2	24000	**128.21**

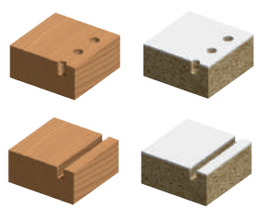
R006M-

Freza din carbura solida, cu doua muchii drepte, coada 6 mm

- *material prelucrat: materiale pe baza de lemn, laminate, placaj, lemn masiv.*
- *se pot utiliza pe masini portabile de frezat*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*







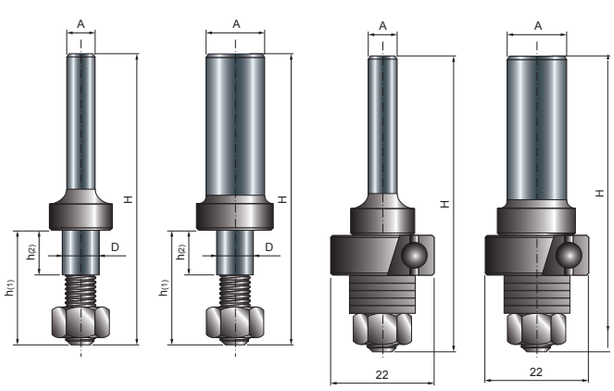
freud.

	D	h	H	A	Z	rpm max.	
R006M03006	3	12	50	6	2	24000	**134.99**
R006M05006	4	12	49	6	2	24000	**119.58**
R006M07406	5	16	51	6	2	24000	**108.49**
R006M10206	6	25	63	6	2	24000	**108.49**

60-

Arbori pentru freze

- *se utilizeaza pe masini de frezat portabile sau stationare*



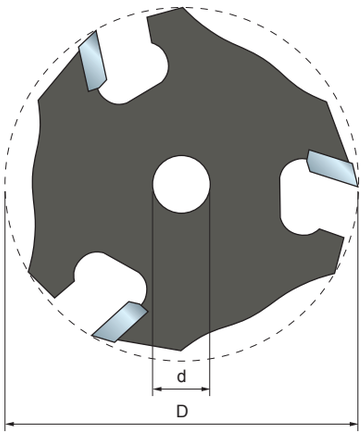
freud.

	D	h1	h2	C	A	
60-12006P	8	25,4	9.9		6	**54.24**
60-10008P	8	25,4	9.9	22	8	**43.89**
60-12008P	8	25,4	9.9		8	**54.24**

56-

Freza uluc placata CMS pentru arbore Z3

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se utilizeaza pe masini de frezat portabile sau stationare*





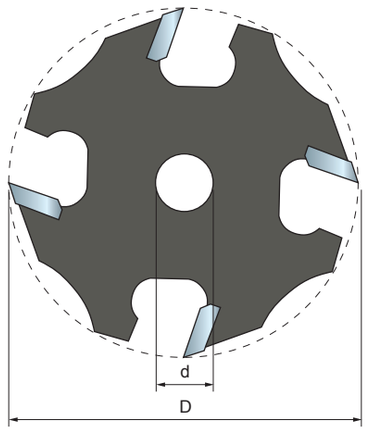
freud.

	D	h	d	Z	rpm max.	
56-09908P	50,8	1,5	8	3	24000	**94.18**
56-10408P	50,8	1,98	8	3	24000	**94.68**
56-11308P	50,8	2,5	8	3	24000	**94.68**
56-11408P	50,8	3	8	3	24000	**88.76**
56-11508P	50,8	3,5	8	3	24000	**93.69**
56-10908P	50,8	3,97	8	3	24000	**93.69**
56-11608P	50,8	5	8	3	24000	**98.13**

58-

Freza uluc placata CMS pentru arbore Z4

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se utilizeaza pe masini de frezat portabile sau stationare*





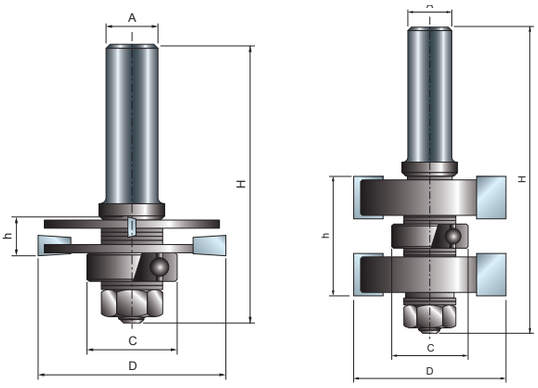
freud.

	D	h	d	Z	rpm max.	
58-09908P	50,8	1,5	8	4	24000	**107.01**
58-10408P	50,8	1,98	8	4	24000	**107.01**
58-11308P	50,8	2,5	8	4	24000	**107.99**
58-11408P	50,8	3	8	4	24000	**103.06**
58-11608P	50,8	5	8	4	24000	**111.44**
58-11108P	50,8	5,95	8	4	24000	**111.44**

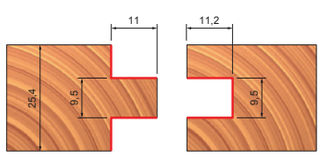
99-

Freza cu coada pentru profil lamba uluc

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se utilizeaza pe masini de frezat cu masa portabile sau stationare*



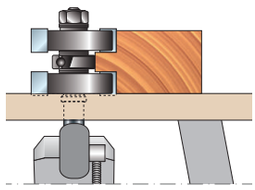




freud.

	D	h	d	A	C	Z	rpm max.	
99-03612P	44	5,5	9,5	12	22	2	24000	**581.88**

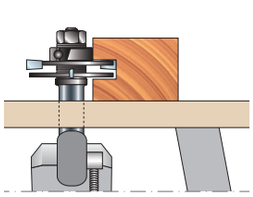
Exemplu de aplicatie
E



CONTRAPROFIL

Contraprofil	Spatiu necesar piese	Spatiu necesar distantier	Profil
5,5	-	-	5,5
	1	0,5 mm	
6			6
	1	0,5 mm	
6,35	1	0,2 mm	6,35
	1	0,15 mm	
	1	1 mm	
6,75	1	0,15 mm	6,75
	1	0,10 mm	
	1	1 mm	
7,15	1	0,5 mm	7,15
	1	0,15 mm	
	1	1 mm	
7,55	1	0,5 mm	7,55
	2	0,2 mm	
	1	0,15 mm	

Exemplu de aplicatie



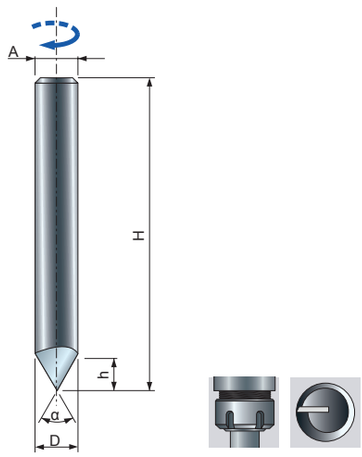
PROFIL

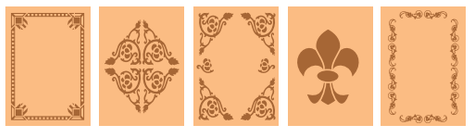
Contraprofil	Spatiu necesar piese	Spatiu necesar distantier	Profil
	2	1 mm	
7,95	2	0,2 mm	7,95
	1	0,15 mm	
	1	0,10 mm	
	3	1 mm	
8,35	1	0,15 mm	8,35
	1	0,10 mm	
	3	1 mm	
8,75	1	0,15 mm	8,75
	1	0,10 mm	
	3	1 mm	
9,15	1	0,5 mm	9,15
	1	0,15 mm	
	3	1 mm	
9,5	1	0,5 mm	9,5
	1	0,15 mm	

58-

Freza din carbura solida pentru sculptura

• se utilizeaza pe masini de frezat portabile





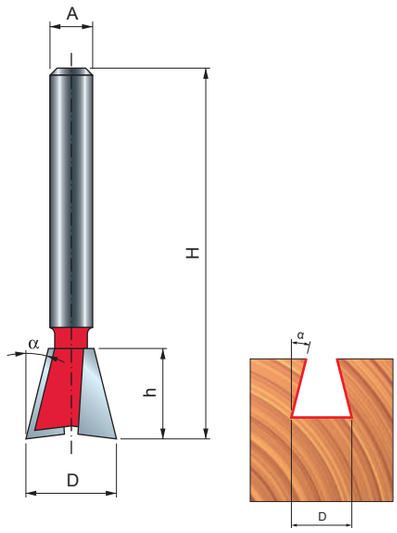
freud.

	D	h	d	A	α	Z	rpm max.	
PI01MD6083	8	6	70	8	25°	1	30000	**399.11**

22-

Freza profilata coada de randunica, placata CMS, Z2, cu coada

• material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.
• se utilizeaza pe masini de frezat portabile sau stationare cu masa
• pentru adancimi de frezare mari, se recomanda trecerile multiple prin material



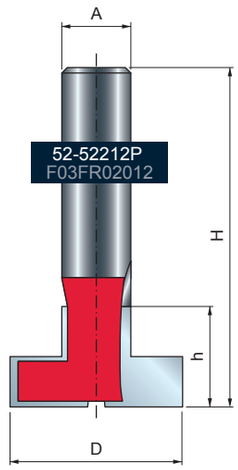
freud.

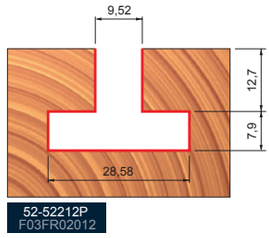
	D	h	H	A	α	Z	rpm max.	
22-10208P	9,5	9,5	47,6	8	9°	2	24000	**80.38**
22-10408P	12,7	12,7	47,5	8	14°	2	24000	**84.82**
22-10508P	15,8	22,2	54,2	8	7°	2	24000	**100.60**
22-10608P	19	22,2	54,2	8	7°	2	24000	**106.51**

52-

Freza profilata pentru canale T, placata CMS, Z2, cu coada

• material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.
• se utilizeaza pe masini de frezat portabile sau stationare cu masa





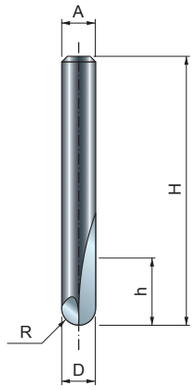
freud.

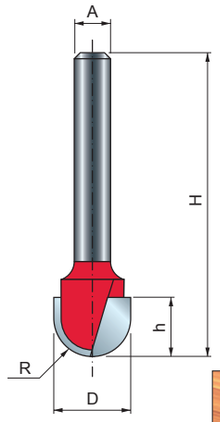
	D	h	H	A	Z	rpm max.	
52-52212P	28,58	20,6	63,5	12	2	24000	**201.18**

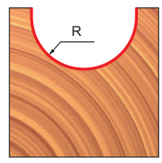
18-

Freza cilindro-frontala profilata convex 1/2C, placata CMS, Z2, cu coada

• material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.
• se pot utiliza atat pe CNC, cat si pe masini portabile de frezat
• pentru adancimi de frezare mari, se recomanda trecerile multiple prin material







■ **Carbura solida**

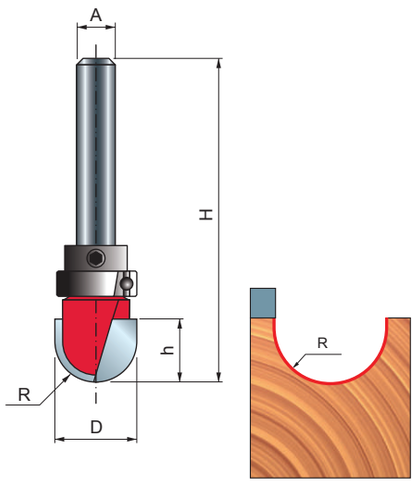
freud.

	D	h	H	A	R	Z	rpm max.	
18-10008P ■	3,2	9,5	50,5	8	1,6	2	24000	**133.14**
18-10208P ■	4,8	9,5	50,5	8	2,4	2	24000	**133.14**
18-10408P ■	6	12,7	50,8	8	3	2	24000	**133.14**
18-10608P	9,5	9	46	8	4,8	2	24000	**81.86**
18-10808P	12	9	46	8	6	2	24000	**85.31**
18-11008P	15,8	11	50,8	8	8	2	24000	**90.24**
18-11208P	19	11	50,8	8	9,5	2	24000	**92.71**

18-

Freza cilindro-frontala profilata convex 1/2C, cu rulment superior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se pot utiliza atat pe CNC, cat si pe masini portabile de frezat*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*



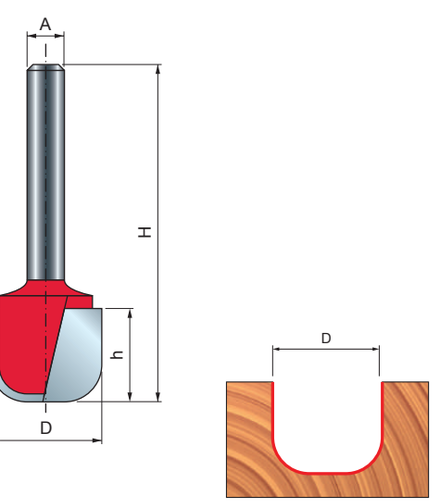
freud.

	D	h	H	A	C	Z	rpm max.	
18-51008P	15,8	11	59,5	8	15,8	2	24000	**147.44**
18-51208P	19	11,1	59,5	8	19	2	24000	**147.44**

19-

Freza cilindro-frontala cu profil cupa, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se pot utiliza atat pe CNC, cat si pe masini portabile de frezat*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*



freud.

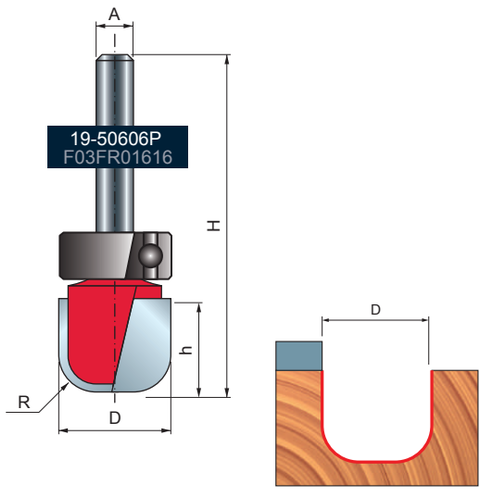
	D	h	H	A	C	R	Z	rpm max.	
19-10608P	19	15,9	47,5	8		6,35	2	24000	**147.44**



19-

Freza cilindro-frontala cu profil cupa, cu rulment superior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se pot utiliza atat pe CNC, cat si pe masini portabile de frezat*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*



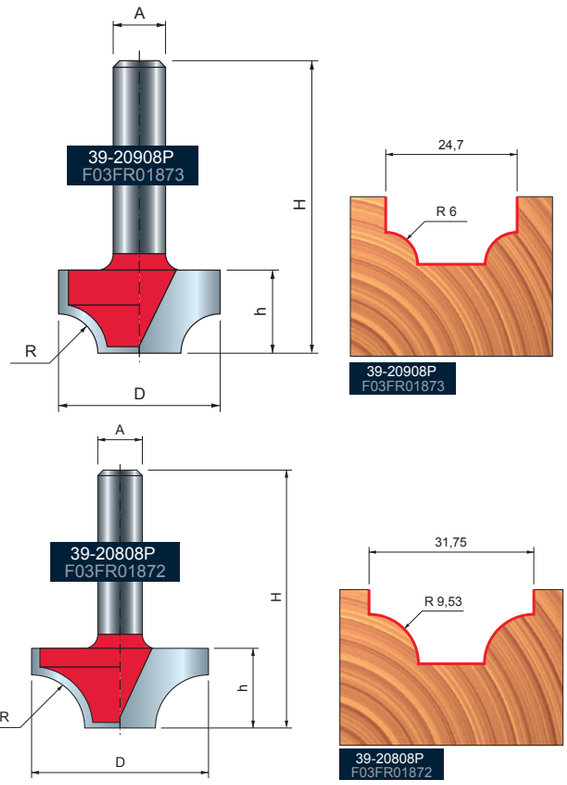
freud.

	D	h	H	A	C	R	Z	rpm max.	
19-50606P	19	15,9	58,7	6	19	6,35	2	24000	**167.66**

39-

Freza profilata frontal placata CMS Z-2, cu coada

- *pentru materiale compozite, placaj, lemn de esenta tare si rasinoase*
- *utilizare pe masini masini de frezat portabile*
- *folositi mai multe treceri atunci cand eliminati cantitati mari de material*



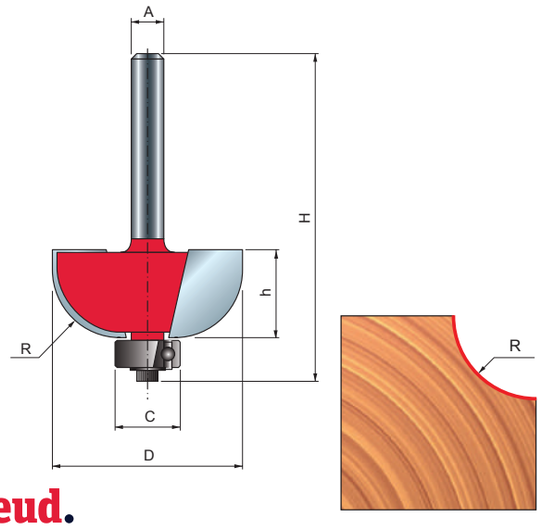
freud.

	D	h	H	A	R	Z	rpm max.	
39-20908P	24,7	12,7	44,7	8	6	2	24000	**156.32**
39-20808P	31,75	14,3	46,3	8	9,53	2	24000	**169.14**
39-20206P	12,7	8	50	6	3,2	2	24000	**136.10**

30-

Freza cu coada, profilata convex 1/2C, placata CMS, cu rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se pot utiliza atat pe CNC, cat si pe masini portabile de frezat*



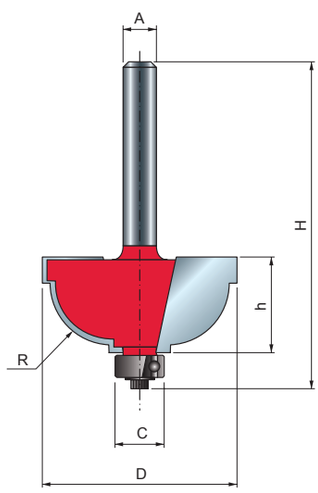
freud.

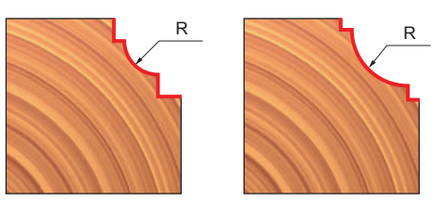
	D	h	H	A	C	R	Z	rpm max.	
30-10008P	19	12,7	54,2	8	9,5	4,8	2	24000	**131.66**
30-10208P	22,2	12,7	54,2	8	9,5	6,35	2	24000	**112.92**
30-10308P	25,4	12,7	54,2	8	9,5	8	2	24000	**146.46**
30-10408P	31,8	12,7	55,2	8	12,7	9,5	2	24000	**126.24**
30-10608P	38,1	16,4	58,3	8	12,7	12,7	2	24000	**143.50**

30-

Freza cu coada, profilata convex 1/2C cu tesire, placata CMS, cu rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se pot utiliza atat pe CNC, cat si pe masini portabile de frezat*





Cu rulment de ø 9,5 mm

Cu rulment de ø 12,7 mm

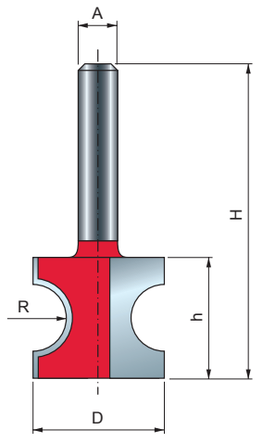
freud.

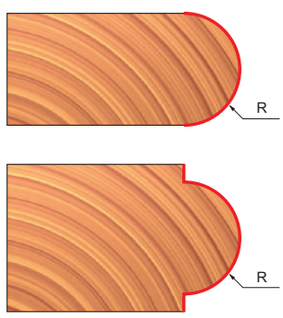
	D	h	H	A	C	R	Z	rpm max.	
30-30408P	28,6	12,7	54,2	8	9,5	4,8	2	24000	**134.62**
30-20208P	31,8	15,1	56,6	8	9,5	8	2	22000	**164.21**

82-

Freza profilata 1/2 concav, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se pot utiliza atat pe CNC, cat si pe masini portabile de frezat cu sau fara masa*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*





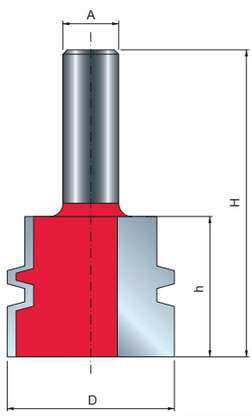
freud.

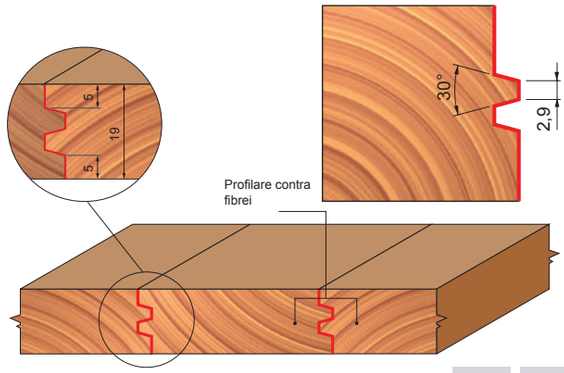
	D	h	H	A	R	Z	rpm max.	
82-10208P	19	12,4	44,7	8	3,2	2	24000	**116.87**
82-10408P	22,2	19,5	51	8	4,8	2	24000	**139.55**
82-10608P	25,4	22,9	55	8	6,35	2	24000	**144.98**

99-

Freza profilata pentru imbinari cu un dinte, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*





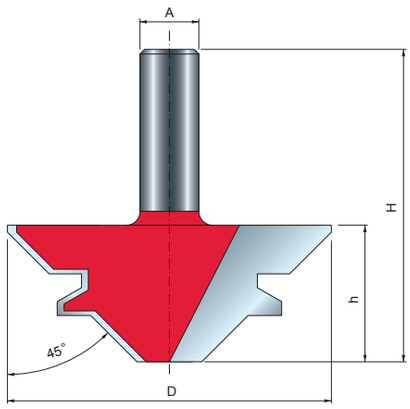
freud.

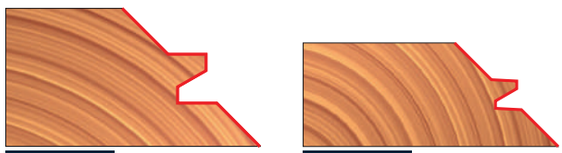
	D	h	H	A	Z	rpm max.	
99-03112P	38	32	70	12	2	24000	**225.35**

99-

Freza profilata pentru imbinari la 45°, cu un dinte, placata CMS, Z-2 cu coada

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*

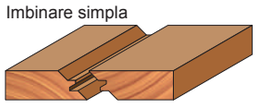




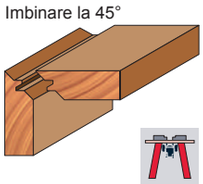
99-03412P
F03FR02424

99-03512P
F03FR02425

Imbinare simpla



Imbinare la 45°



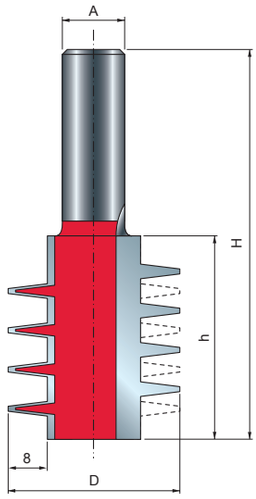
freud.

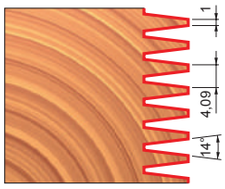
	D	h	H	A	α	Z	rpm max.	
99-03512P	55	23	61	12	45°	2	24.000	**315.59**
99-03412P	70	29,5	67,5	12	45°	2	16.000	**441.34**

99-

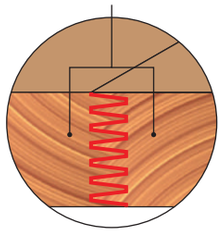
Freza profilata pentru imbinari in dinti, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*





Profilare contra fibrei



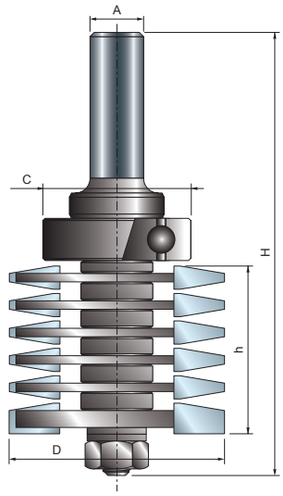
freud.

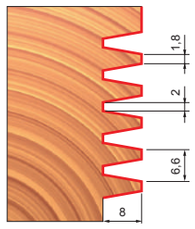
	D	h	H	A	Z	rpm max.	
99-03712P	35	41,5	78	12	2	24000	**399.42**

99-

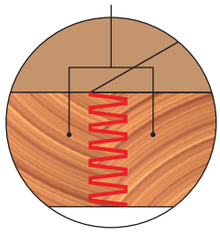
Freza profilata pentru imbinari in dinti cu umar, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*





Profilare contra fibrei



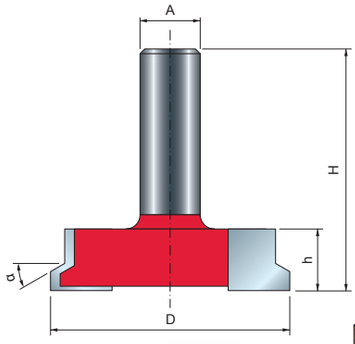
freud.

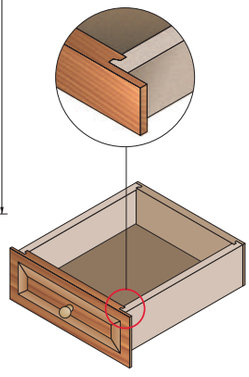
	D	h	H	A	C	Z	rpm max.	
99-03912P	50,8	45,2	108	12	35	2	24000	**653.38**

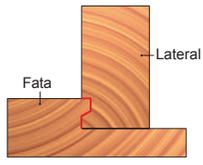
99-

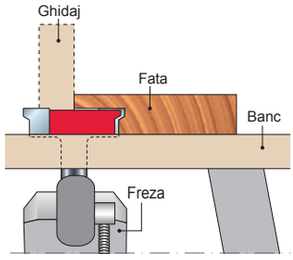
Freza profilata pentru sertare, placata CMS, Z2, cu coada

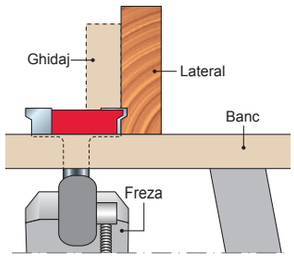
- *freza profilata pentru imbinarea frontului de sertar cu lateralele acestuia, cu ajutorul unui ghidaj*
- *material prelucrat: materiale pe baza de lemn, lemn masiv*
- *se pot utiliza doar pe masini portabile de frezat cu masa*











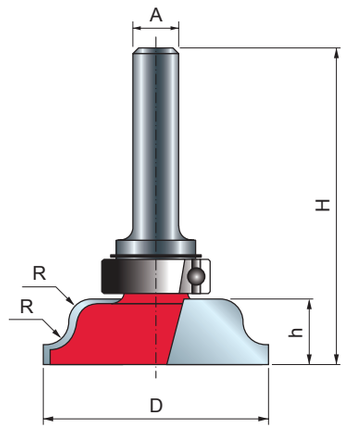
freud.

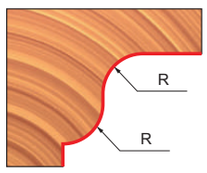
	D	h	H	A	α	Z	rpm max.	
99-24012P	50,5	13	51	12	30°	2	24.000	**220.42**

23-

Freza profilata sinusoidal, cu rulment copier superior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se pot utiliza atat pe CNC, cat si pe masini portabile de frezat cu sau fara masa*





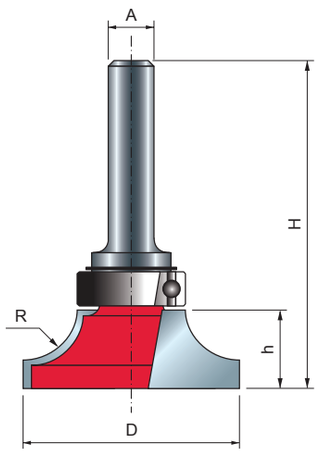
freud.

	D	h	H	A	C	R	Z	rpm max.	
23-10008P	39,5	11,5	54,6	8	19	4	2	24000	**204.15**

23-

Freza profilata concav 1/4 C, cu rulment copier superior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv*
- *se pot utiliza atat pe CNC, cat si pe masini portabile de frezat cu sau fara masa*





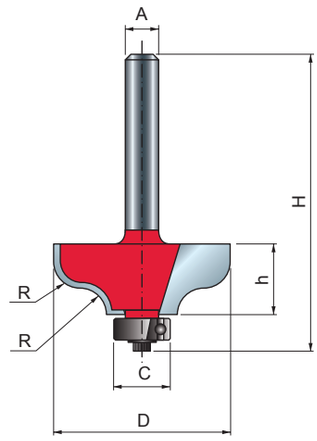
freud.

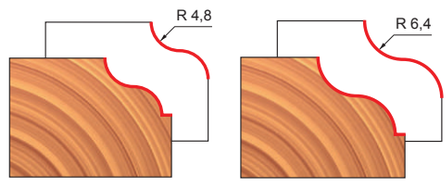
	D	h	H	A	C	R	Z	rpm max.	
23-20008P	38	12,5	55,6	8	19	6,35	2	24000	**198.73**
23-20208P	35	13,2	56,3	8	19	8	2	24000	**194.29**
23-20408P	38	14,5	57,6	8	19	9,5	2	24000	**203.16**

38-

Freza profilata sinusoidal, cu tesire jos, cu rulment copier inferior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv*
- *se pot utiliza pe masini portabile de frezat cu sau fara masa*





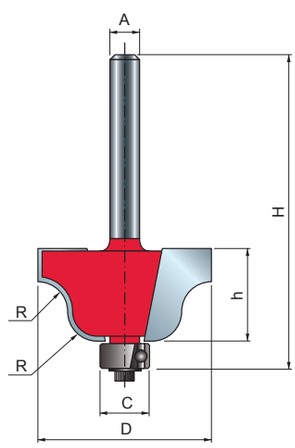
freud.

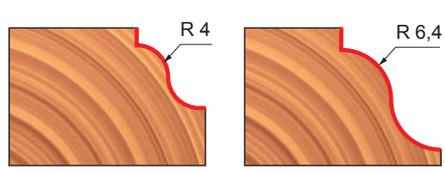
	D	h	H	A	C	R	Z	rpm max.	
38-20208P	31,8	12,7	54,2	8	9,5	4,8	2	24000	**140.04**
38-20408P	38,1	15,7	57,4	8	9,5	6,4	2	24000	**181.47**

38-

Freza profilata sinusoidal, cu tesire sus, cu rulment copier inferior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv*
- *se pot utiliza pe masini portabile de frezat cu sau fara masa*





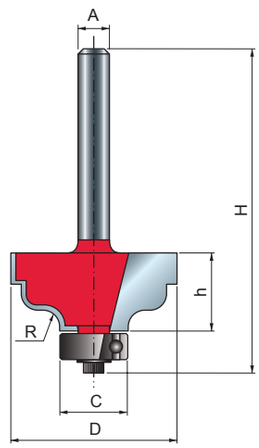
freud.

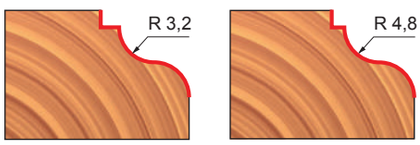
	D	h	H	A	C	R	Z	rpm max.	
38-10008P	27	13,3	54,7	8	9,5	4	2	24000	**127.22**
38-10208P	35	18,5	60,5	8	9,5	6,4	2	24000	**138.07**

38-

Freza profilata concav convex, cu rulment copier inferior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se pot utiliza pe masini portabile de frezat cu sau fara masa*





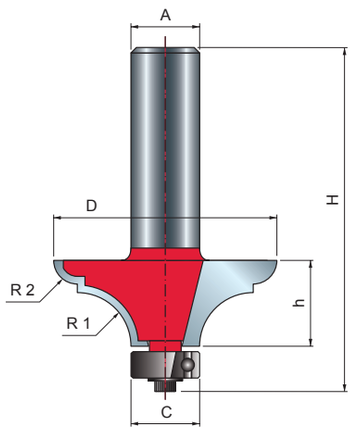
freud.

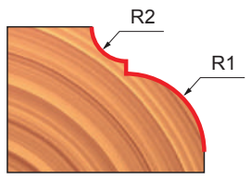
	D	h	H	A	C	R	Z	rpm max.	
38-40208P	31,8	15	56,7	8	12,7	3,2	2	24000	**142.51**

99-

Freza profilat ptr blat masa, cu rulment copier inferior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se pot utiliza pe masini portabile de frezat cu sau fara masa*





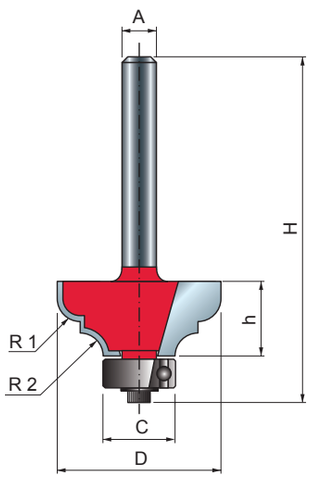
freud.

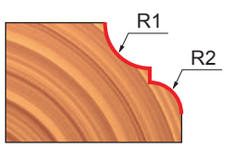
	D	h	H	A	C	R1	R2	rpm max.	
99-01108P	41,3	15,9	63,5	8	12,7	9,9	4,4	24000	**179.49**

38-

Freza profilata concav convex, cu tesire intre ele, cu rulment copier inferior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se pot utiliza pe masini portabile de frezat cu sau fara masa*





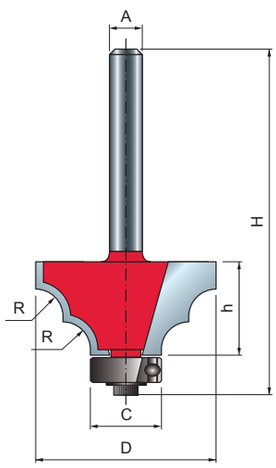
freud.

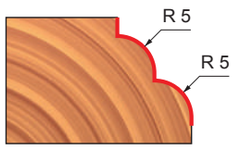
	D	h	H	A	C	R1	R2	rpm max.	
38-60208P	28,6	12,7	54,7	8	12,7	4	4	24000	**132.15**
38-60408P	34,9	18,3	60,3	8	12,7	6,4	4,8	24000	**183.93**

38-

Freza profilata concav concav, cu rulment copier inferior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv*
- *se pot utiliza pe masini portabile de frezat cu sau fara masa*





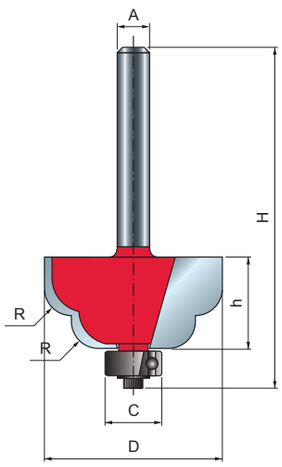
freud.

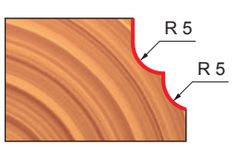
	D	h	H	A	C	R	Z	rpm max.	
38-90008P	32,7	15	57,2	8	12,7	5	2	24000	**171.60**

38-

Freza profilata convex convex, cu rulment copier inferior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv*
- *se pot utiliza pe masini portabile de frezat cu sau fara masa*





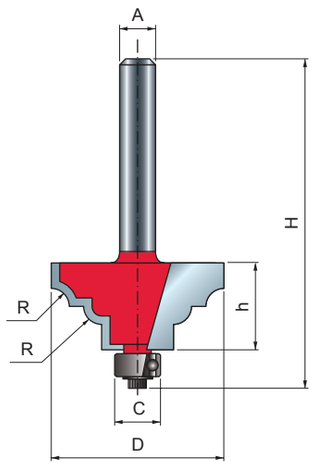
freud.

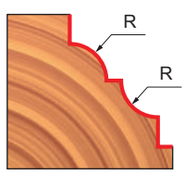
	D	h	H	A	C	R	Z	rpm max.	
38-95008P	32,7	15	57,2	8	12,7	5	2	24000	**174.07**

38-

Freza profilata complex, cu rulment copier inferior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv*
- *se pot utiliza pe masini portabile de frezat cu sau fara masa*





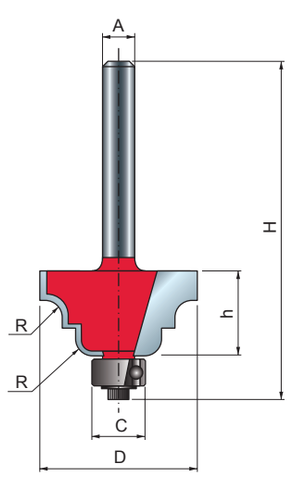
freud.

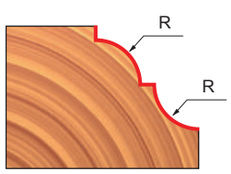
	D	h	H	A	C	R	Z	rpm max.	
38-80408P	40,7	18	60,2	8	12,7	5	2	24000	**209.08**

38-

Freza profilata concav convex, cu tesire intre ele, cu rulment copier inferior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv*
- *se pot utiliza pe masini portabile de frezat cu sau fara masa*





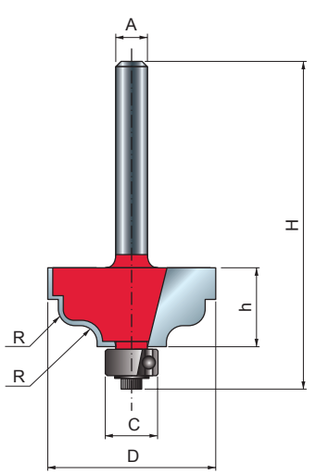
freud.

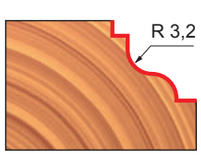
	D	h	H	A	C	R	Z	rpm max.	
38-30608P	29,4	13,5	55,5	8	9,5	4	2	24000	**163.22**
38-30408P	38,9	18,3	60,3	8	9,5	6,4	2	24000	**194.29**

38-

Freza profilata sinusoidal, cu tesire sus si jos, cu rulment copier inferior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv*
- *se pot utiliza pe masini portabile de frezat cu sau fara masa*





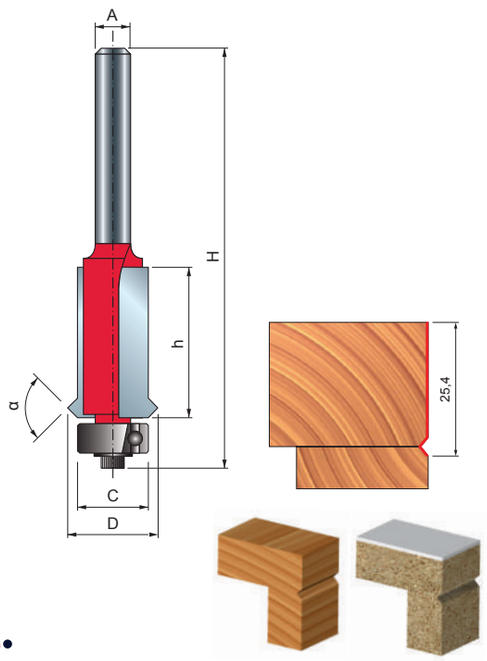
freud.

	D	h	H	A	C	R	Z	rpm max.	
38-45208P	31,8	15	56,8	8	9,5	3,2	2	24000	**157.80**

48-

Freza profilata in V placata CMS Z-2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, laminate, placaj, lemn masiv.*
- *se pot utiliza pe masini portabile de frezat*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*



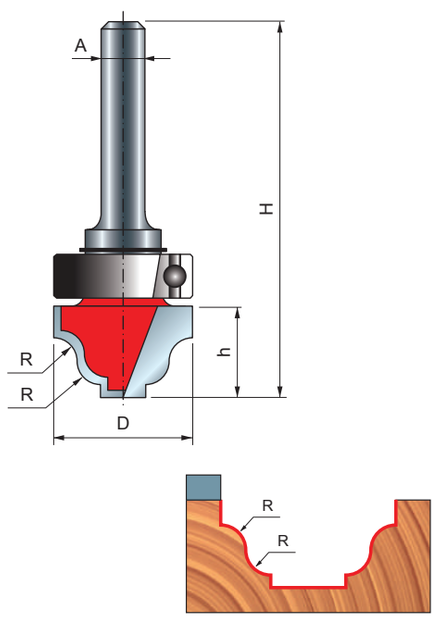
freud.

	D	h	H	A	C	α	Z	rpm max.	
48-10208P	15,8	25,4	71,5	8	12,7	90°	2	24000	**121.80**

39-

Freza cilindro frontala profilata sinusoidal, cu tesire sus, cu rulment copier superior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv*
- *se pot utiliza pe masini portabile de frezat cu sau fara masa*



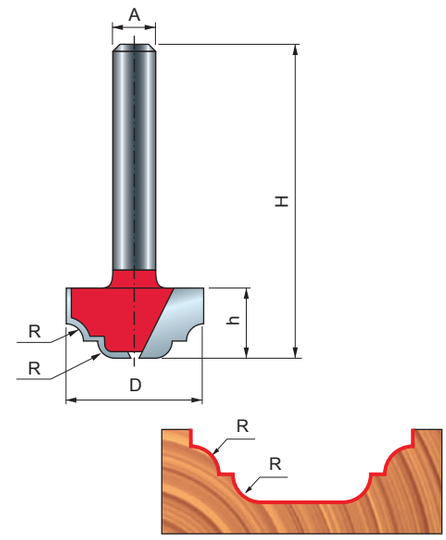
freud.

	D	h	H	A	C	R	Z	rpm max.	
39-52808P	28	14	56,8	8	28	4	2	24000	**207.11**

39-

Freza cilindro frontala profilata complex, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se pot utiliza atat pe CNC, cat si pe masini portabile de frezat cu sau fara masa*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*



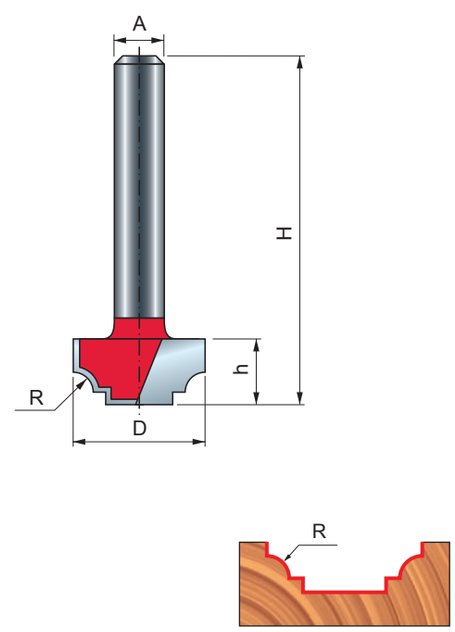
freud.

	D	h	H	A	C	R	Z	rpm max.	
39-10208P	25,4	12,7	44,7	8	9,5	3,2	2	24000	**121.80**
39-11408P	31,8	12,7	44,7	8	9,5	4	2	24000	**147.93**

39-

Freza cilindro frontala profilata complex, placata CMS, Z2, cu coada

- *pentru materiale compozite, placaj, lemn de esenta tare si rasinoase*
- *utilizare pe masini masini de frezat portabile*
- *folositi mai multe treceri atunci cand eliminati cantitati mari de material*



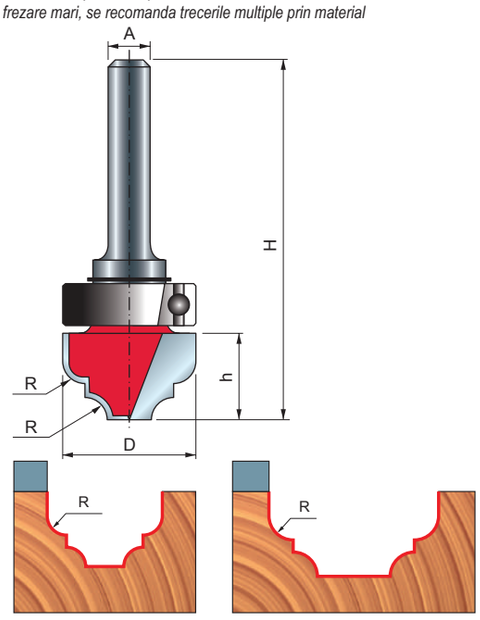
freud.

	D	h	H	A	R	Z	rpm max.	
39-30408P	15,8	9,5	41,5	8	2,4	2	24000	**110.46**
39-30608P	22,2	12	44	8	3,2	2	24000	**129.69**

39-

Freza cilindro frontala profilata concav convex cu tesire intre ele, cu rulment copier superior, placata CMS, Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, placaj, lemn masiv.*
- *se pot utiliza atat pe CNC, cat si pe masini portabile de frezat cu sau fara masa*
- *pentru adancimi de frezare mari, se recomanda trecerile multiple prin material*



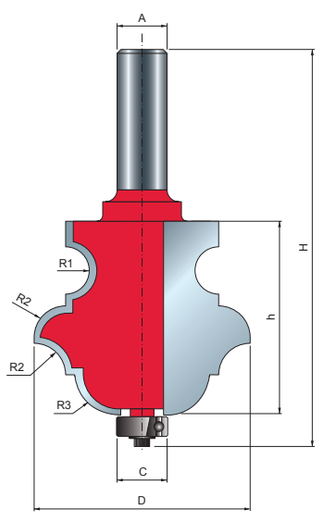
freud.

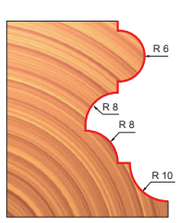
	D	h	H	A	C	R	Z	rpm max.	
39-53808P	28	14	56,8	8	28	4	2	24000	**207.11**

99-

Freza multiprofil, placata CMS Z2, cu coada si rulment copier inferior

- *pentru materiale compozite, placaj, lemn de esenta tare si rasinoase*
- *utilizare pe masini masini de frezat portabile*
- *folositi mai multe treceri atunci cand eliminati cantitati mari de material*





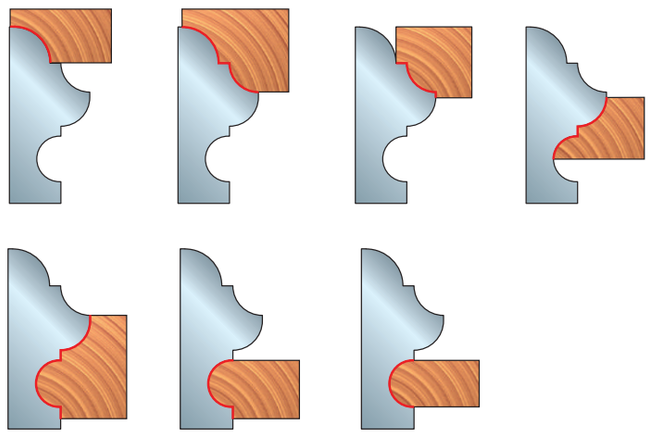


freud.

	D	h	H	A	C		Z	rpm max.	
99-PK112P	54,7	49	102	12	12,7		2	10000	**411.75**

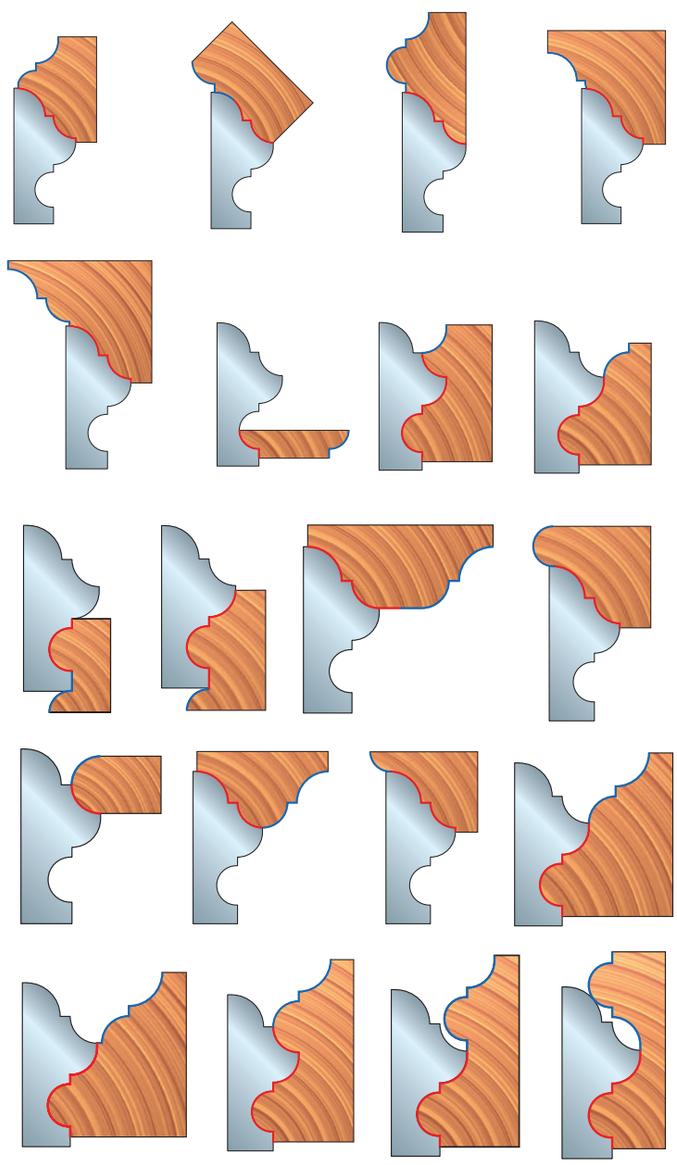
Exemple de profiluri care pot fi realizate cu o singura trecere

Aceste profile standard pot fi realizate intr-o singura trecere folosind freza multiprofil 99-PK112.



Exemple de profiluri care pot fi realizate cu doua treceri

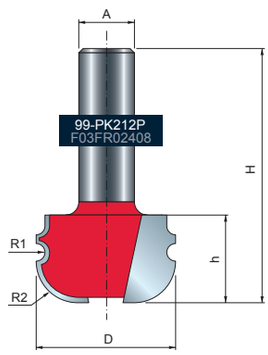
Aceste profile standard pot fi realizate din doua treceri folosind freza multiprofil 99-PK112.

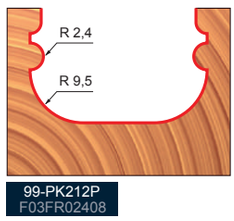


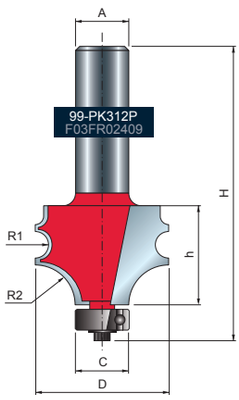
99-

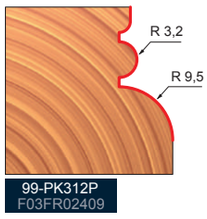
Freza cu coada, pentru ornamente, placata CMS Z2, cu coada

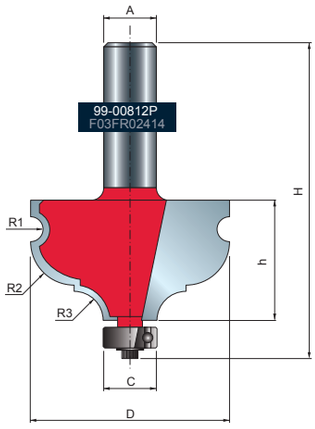
• material prelucrat: materiale pe baza de lemn, lemn masiv.
• se pot utiliza doar pe masini portabile de frezat cu masa

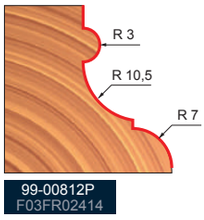












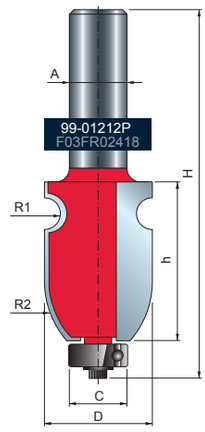
freud.

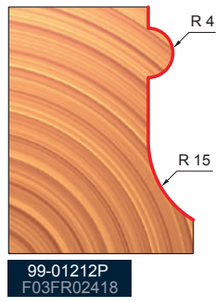
	D	h	H	A	C	Z	rpm max.	
99-PK212P	31,8	20	58	12	-	2	24000	**207.11**
99-PK312P	31,8	23,8	72	12	12,7	2	24000	**246.06**
99-00812P	44,4	28,6	77,1	12	12,7	2	24000	**293.40**

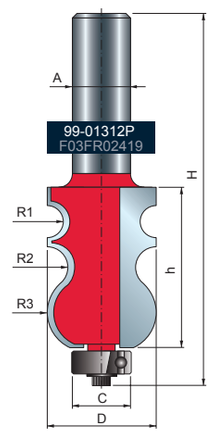
99-

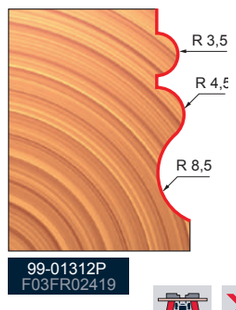
Freza cu coada, pentru ornamente, placata CMS Z2, cu coada

• material prelucrat: materiale pe baza de lemn, lemn masiv.
• se pot utiliza doar pe masini portabile de frezat cu masa









freud.

	D	h	H	A	C	Z	rpm max.	
99-01212P	23,8	35	83,5	12	12,7	2	24000	**235.71**
99-01312P	23,8	35	83,5	12	12,7	2	24000	**235.71**



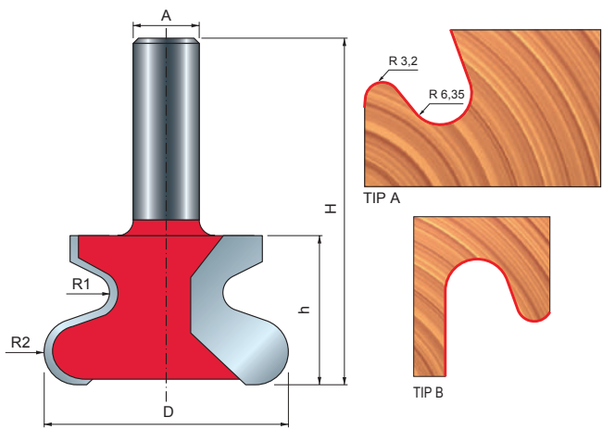
Freud: Lider in industria prelucrarii lemnului de peste 50 de ani.

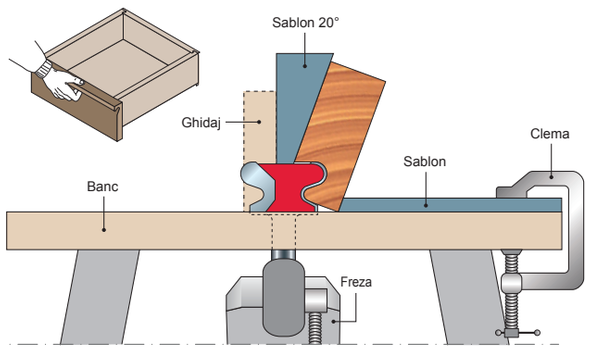
• Performantele de top ale frezelor cu coada marca Freud sunt rezultatul a doi factori: calitatea inalta si durata de viata.
• Compania Freud utilizeaza in procesul de productie cele mai bune materii prime, utilizant cele mai noi si sofisticate procese de productie.
• Fara reparatii, fara rupere, fara marcaje, fara presiune pe masina:
atunci cand sunteti in cautarea unei freze cu coada performante, cautati Freud

99-

Freza pentru profil maner sertare mobilier, placata CMS Z2, cu coada

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*





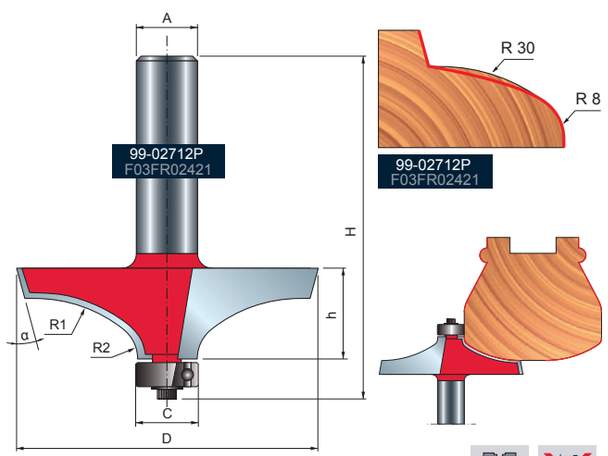
freud.

	D	h	H	A	Z	rpm max.	
99-00712P	47	28,7	66,7	12	2	24000	**310.66**

99-

Freza cu profil concav pentru rotunjit, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*



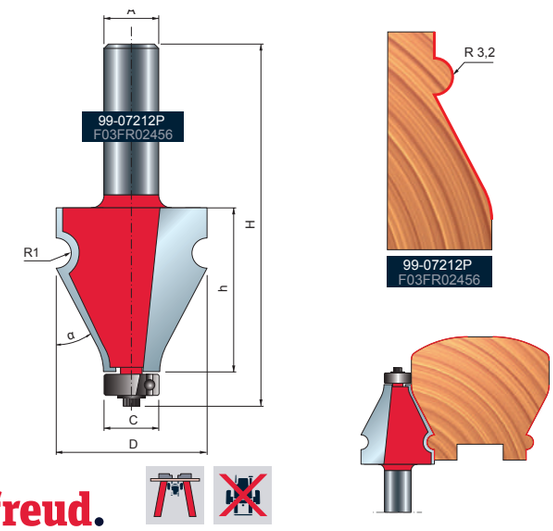
freud.

	D	h	H	A	C	α	Z	rpm max.	
99-02712P	63,5	19	66,2	12	12,7	15°	2	22000	**350.11**

99-

Freza profilata pentru mana curenta, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*



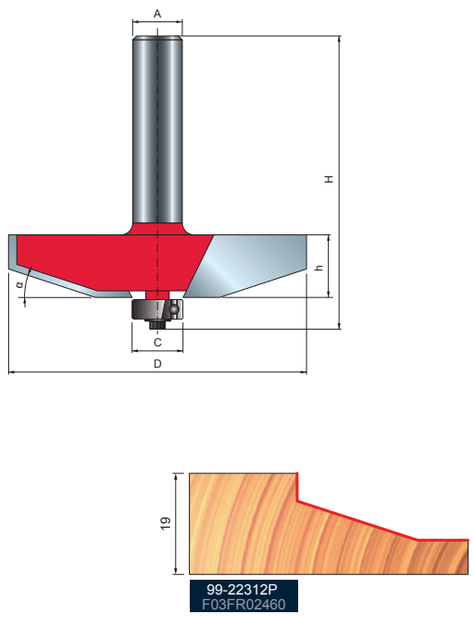
freud.

	D	h	H	A	C	α	Z	rpm max.	
99-07212P	35	38,5	86,6	12	12,7	25°	2	24000	**293.40**

99-

Freza pentru tablii, profil drept, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*



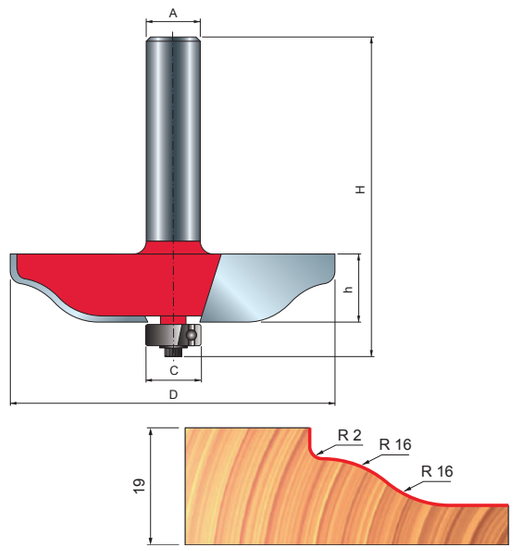
freud.

	D	h	H	A	C	α	Z	rpm max.	
99-22312P	76,2	16	64,7	12	12,7	18°	2	18000	**421.61**

99-

Freza pentru tablii, profil sinusoidal, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*



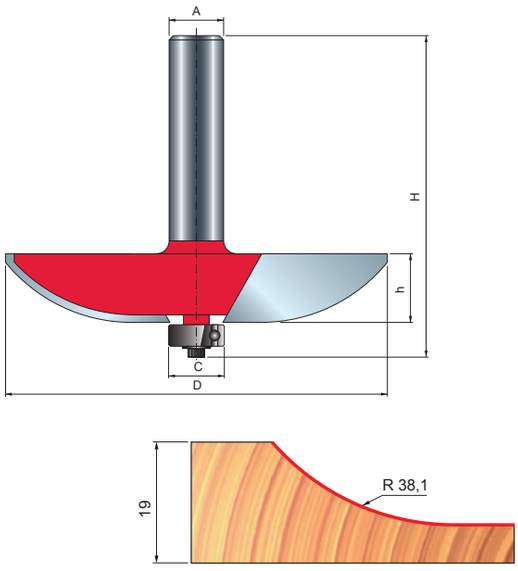
freud.

	D	h	H	A	C	R1	R2	Z	rpm max.	
99-22112P	76,2	16	64,7	12	12,7	2	16	2	18000	**421.61**

99-

Freza pentru tablii, profil convex, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*



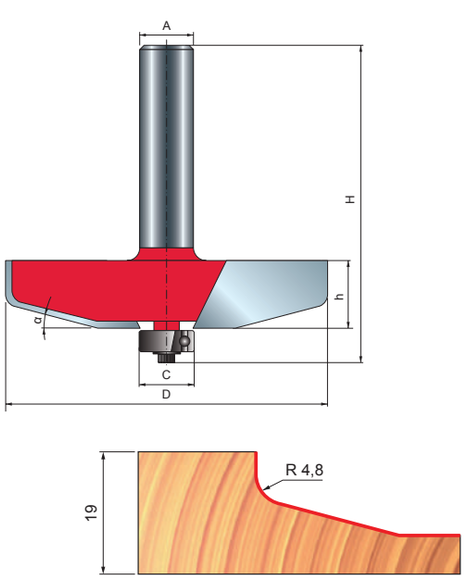
freud.

	D	h	H	A	C	α	R	Z	rpm max.	
99-22512P	76,2	16	64,7	12	12,7	15°	4,8	2	18000	**411.75**

99-

Freza pentru tablii, profil drept cu unghiuri rotunjite, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*



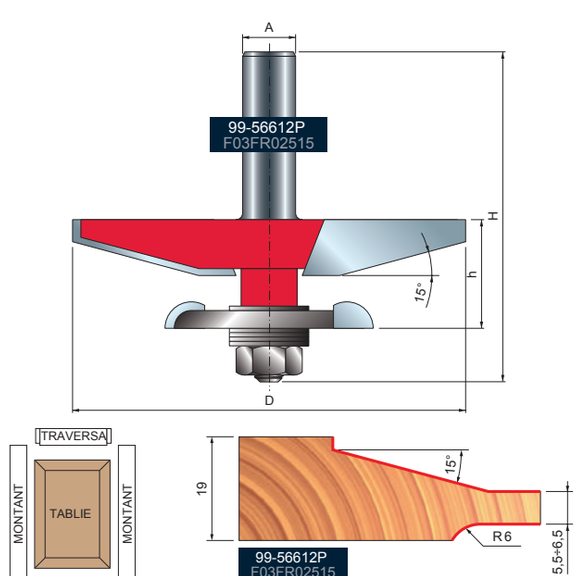
freud.

	D	h	H	A	C	α	R	Z	rpm max.	
99-22412P	76,2	16	64,7	12	12,7	18°	4,8	2	18000	**431.48**

99-

Freza pentru tablii, profil drept, ptr frezare ambele parti, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*



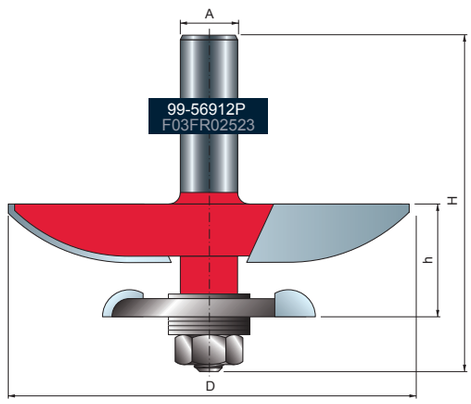
freud.

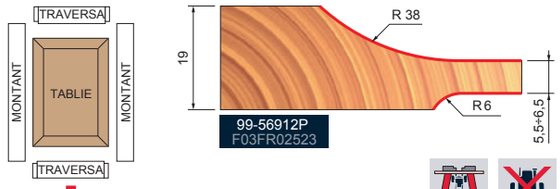
	D	h	H	A	R1	R2	Z	rpm max.	
99-56612P	89	25	75	12	-	6	2	14000	**653.38**

99-

Freza pentru tablii, profil convex, ptr frezare ambele parti, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*





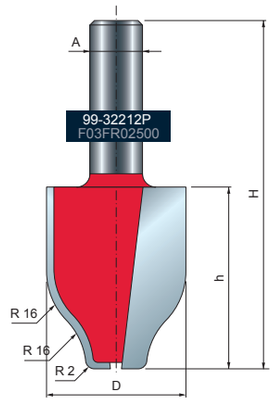
freud.

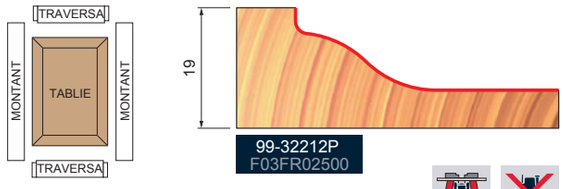
	D	h	H	A	R1	R2	Z	rpm max.	
99-56912P	89	25	75	12	38	6	2	14000	**653.38**

99-

Freza pentru tablii, profil sinusoidal vertical, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*





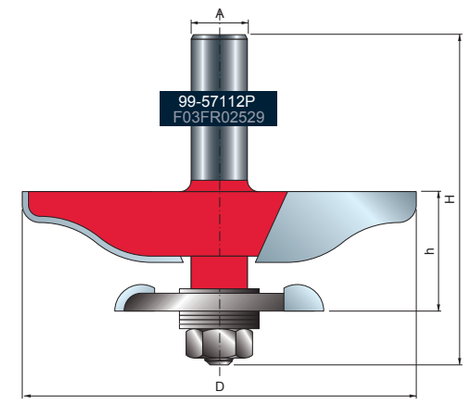
freud.

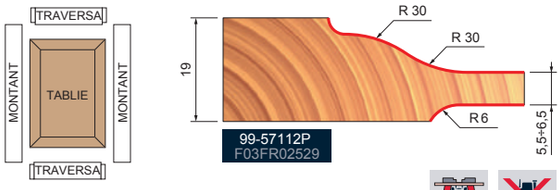
	D	h	H	A	α	R1	Z	rpm max.	
99-32212P	31,8	41,5	79,5	12	-	16	2	24000	**266.28**

99-

Freza pentru tablii, profil sinusoidal, pentru frezare ambele parti, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*





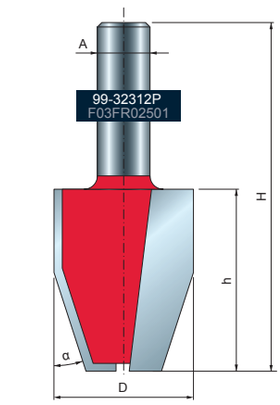
freud.

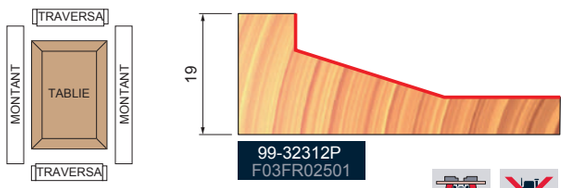
	D	h	H	A	R1	R2	Z	rpm max.	
99-57112P	89	25	75	12	30	6	2	14000	**653.38**

99-

Freza pentru tablii, profil drept vertical, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*





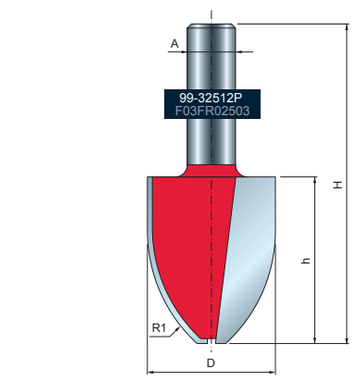
freud.

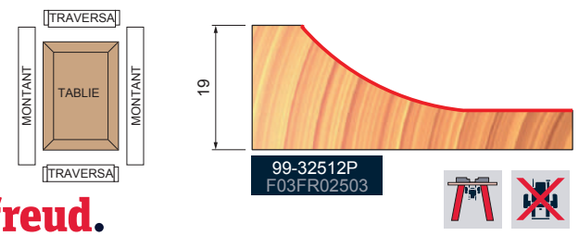
	D	h	H	A	α	R1	Z	rpm max.	
99-32312P	31,8	41,5	79,5	12	18°	-	2	24000	**266.28**

99-

Freza pentru tablii, profil vertical convex, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*





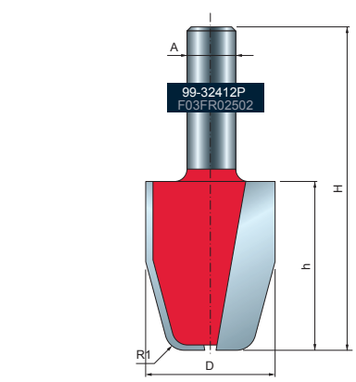
freud.

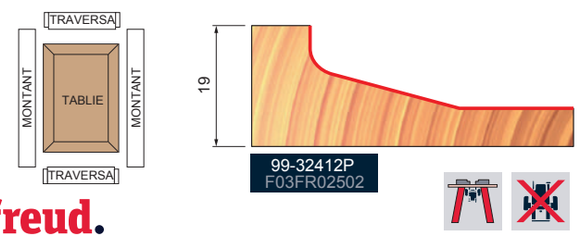
	D	h	H	A	α	R1	Z	rpm max.	
99-32512P	31,8	41,5	79,5	12	-	38,1	2	24000	**266.28**

99-

Freza pentru tablii, profil vertical drept cu colturi rotunjite, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*





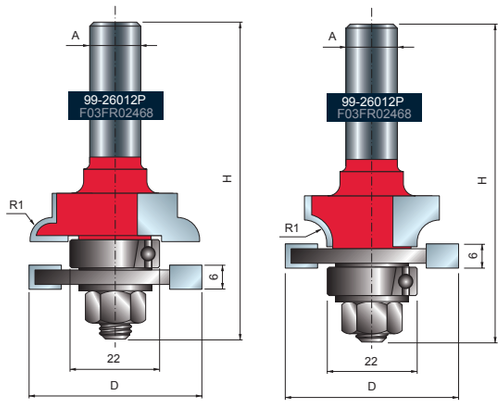
freud.

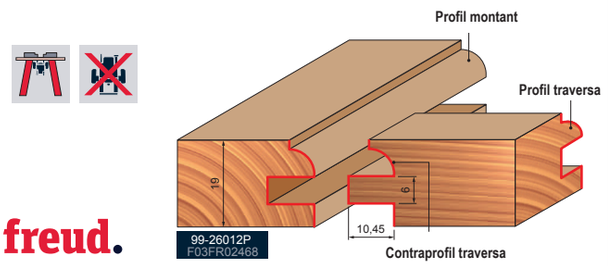
	D	h	H	A	α	R1	Z	rpm max.	
99-32412P	31,8	41,5	79,5	12	15°	4,8	2	24000	**266.28**

99-

Freza profil contraprofil cu raza, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*





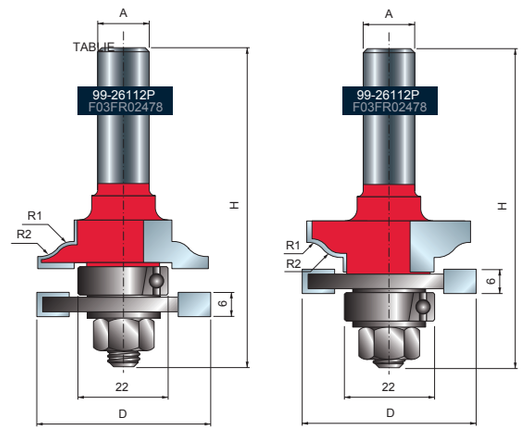
freud.

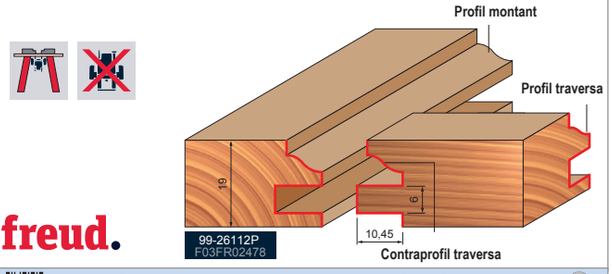
	D	h	H	A	R1	R2	Z	rpm max.	
99-26012P	42,9	19	77	12	5,5	-	2	24000	**549.82**

99-

Freza profil contraprofil sinusoidal, placata CMS Z2, cu coada si rulment copier inferior

- *material prelucrat: materiale pe baza de lemn, lemn masiv.*
- *se pot utiliza doar pe masini portabile de frezat cu masa*





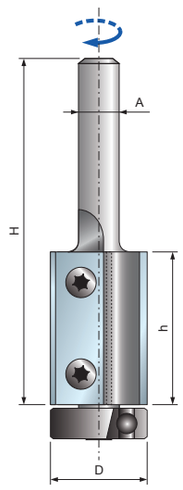
freud.

	D	h	H	A	R1	R2	Z	rpm max.	
99-26112P	42,9	19	77	12	4,5	5,5	2	24000	**549.82**

TG74MD

Freza pentru indreptat cant cu placute amovibile si rulment copier inferior

• material prelucrat: materiale pe baza de lemn, lemn masiv.
• se pot utiliza doar pe masini portabile de frezat cu masa





CG01MEA310
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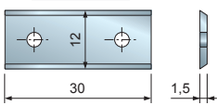


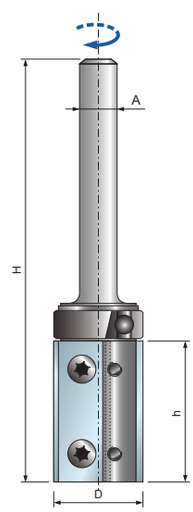
freud.

	D	h	H	A	Z	rpm max.	
TG74MD CE3	19	30	90	12	2	-	398.04

TG76MD

Freza pentru indreptat cant cu placute amovibile si rulment copier superior

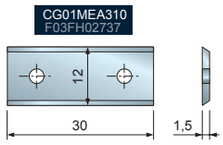
• material prelucrat: materiale pe baza de lemn, lemn masiv.
• se pot utiliza doar pe masini portabile de frezat cu masa





CG01MEA310
F03FH02737





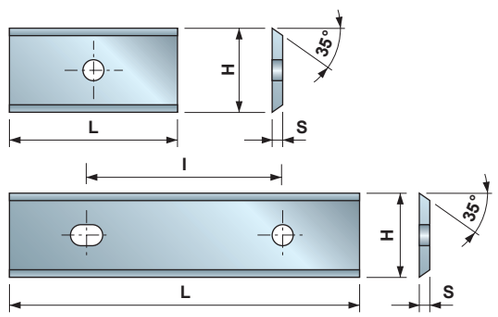
freud.

	D	h	H	A	Z	rpm max.	
TG76MD CD3	19	30	90	8	2	-	485.41

CG08M

Placuta amovibila utilizare universala HW - 35°

• placutele K01S HW cu o muchie de taiere superioara, care are un impact pozitiv asupra finisajului si a duratei de viata a sculei.
• datorita duritatii medii, gama CG08M este potrivita pentru o utilizare universala



freud.

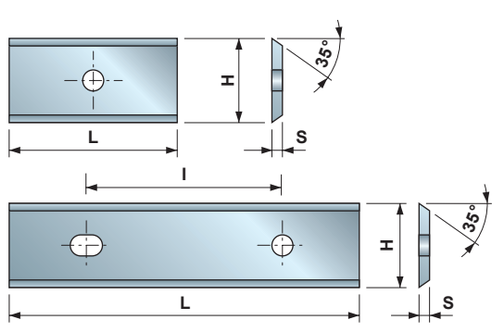


	L	H	S	l	
CG08MAA310	7,6	12	1,5		78.64
CG08MMA310	9,6	12	1,5		93.69
CG08MBA310	12	12	1,5		118.99
CG08McA310	15	12	1,5		85.71
CG08MDA310	20	12	1,5		92.37
CG08MEA310	30	12	1,5	14	125.74
CG08MLA310	40	12	1,5	26	180.54
CG08MFA310	50	12	1,5	26	168.71

CG05M

Placuta amovibila pentru PAL HW - 35°

• produs cu duritate ridicata
• este recomandat in special pentru prelucrarea panourilor din PAL melaminat, MDF si a altor materiale compozite din lemn



freud.



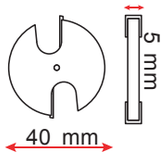
	L	H	S	l	
CG05MBA310	12	12	1,5		188.23
CG05MDA310	20	12	1,5		145.62
CG05MEA310	30	12	1,5	14	191.47
CG05MFA310	50	12	1,5	26	298.80

XT60642067866

Freza disc, placata CMS, Z 2 pentru uluc 5,0 mm

- *pentru lemn esenta tare si moale, precum si pentru plastic*
- *placute CMS brazate*





TIVOLY

	Q	H	
XT60642067866	40	5,0	68.56

XT60642067863

Ax pentru freza disc



TIVOLY

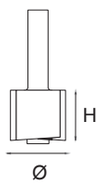
	Ø	d	d2	
XT60642067863	6,0	22,0	8,0	56.03

XT61012

Freza cu coada, placata CMS cu tais drept Z 2

- *pentru lemn esenta tare si moale, precum si pentru plastic*
- *placute CMS brazate*





TIVOLY

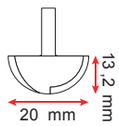
	Ø	H	d2	
XT60642067832	4,0	8,0	8,0	58.99
XT60642067834	6,0	16,0	8,0	58.99
XT60642067835	8,0	20,0	8,0	58.99
XT60642067836	10,0	20,0	8,0	68.56
XT60642067837	12,0	20,0	8,0	68.56
XT60642067838	14,0	20,0	8,0	68.56
XT60642067840	16,0	20,0	8,0	77.30
XT60642067841	18,0	20,0	8,0	77.30
XT60642067842	20,0	20,0	8,0	77.30

XT60642067845

Freza cu coada, profilata placata CMS

- *pentru lemn esenta tare si moale, precum si pentru plastic*
- *placute CMS brazate*





TIVOLY

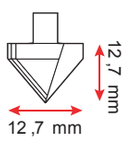
	Ø	H	d2	
XT60642067845	20,0	13,2	8,0	77.30

XT60642067846

Freza cu coada, profilata in V, placata CMS

- *pentru lemn esenta tare si moale, precum si pentru plastic*
- *placute CMS brazate*
- *unghi de frezare 90º*





TIVOLY

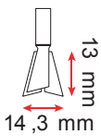
	Ø	H	d2	
XT60642067846	12,7	12,7	8,0	77.30

XT60642067861

Freza cu coada, profilata coada de randunica placata CMS

- *pentru lemn esenta tare si moale, precum si pentru plastic*
- *placute CMS brazate*
- *unghi de frezare 15º*





TIVOLY

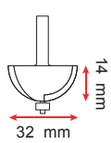
	Ø	H	d2	
XT60642067861	14,3	13,0	8,0	68.56

XT60642067801

Freza cu coada, profilata 1/4 convex, placata CMS, cu rulment copier

- *pentru lemn esenta tare si moale, precum si pentru plastic*
- *placute CMS brazate*
- *raza de frezare: 9,5 mm*





TIVOLY

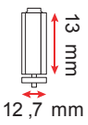
	Ø	H	d2	
XT60642067801	32,0	14,0	8,0	80.81

XT60642067802

Freza cu coada, cu tais drept, placata CMS, cu rulment copier

- *pentru lemn esenta tare si moale, precum si pentru plastic*
- *placute CMS brazate*





TIVOLY

HM CARB | EN 847 | 13 mm / 12,7 mm | Ø 8 mm

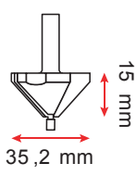
	Ø	H	d2	
XT60642067802	12,7	13,0	8,0	80.81

XT60642067806

Freza cu coada, profilata unghiular, placata CMS, cu rulment copier

- *pentru lemn esenta tare si moale, precum si pentru plastic*
- *placute CMS brazate*
- *unghi de frezare 45º*





TIVOLY

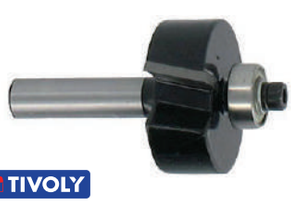
HM CARB | EN 847 | 45° | Ø 8 mm

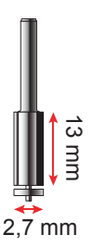
	Ø	H	d2	
XT60642067806	32,5	15,0	8,0	80.81

XT60642067807

Freza cu coada, pentru cant-falt, placata CMS, cu rulment copier

- *pentru lemn esenta tare si moale, precum si pentru plastic*
- *placute CMS brazate*





TIVOLY

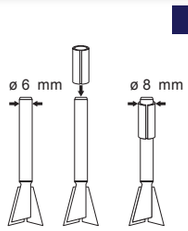
HM CARB | EN 847 | Ø 8 mm

	Ø	H	d2	
XT60642067807	31,8	12,7	8,0	80.81

XT61152

Adaptor-amplificator diametrul cozii





TIVOLY

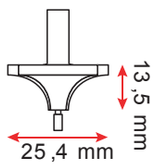
	Ø	
XT60642067598	6 > 8	58.99
XT60642067599	8 > 12	58.99

XT60642067809

Freza cu coada, profilata 1/4 concav, placata CMS, cu rulment copier

- *pentru lemn esenta tare si moale, precum si pentru plastic*
- *placute CMS brazate*
- *raza de frezare: 9,5 mm*





TIVOLY

HM CARB | EN 847 | 6,3 mm | Ø 8 mm

	Ø	H	d2	
XT60642067809	25,4	13,5	8,0	80.81

XT60642064006

Set de 6 freze cu coada profile diferite, in cutie de plastic

- *pentru lemn esenta tare si moale, precum si pentru plastic*
- *placute CMS brazate*
- *coada de prindere: d 8 mm*



TIVOLY

HM CARB | Ø 8 mm

	d	
XT60642064006	8,0	68.97

XT60647064012

Set de 12 freze cu coada profile diferite, in cutie de plastic

- *pentru lemn esenta tare si moale, precum si pentru plastic*
- *placute CMS brazate*
- *coada de prindere: d 8 mm*



TIVOLY

HM CARB | Ø 8 mm

	d	
XT60647064012	8,0	117.28

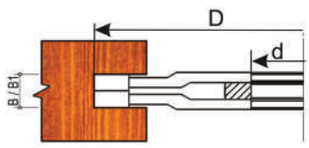
0138999S

Freze cu alezaj, reglabile, pentru uluc, cu placute brazate CMS

- *corpul realizat din otel cu cutite brazate din CMS*
- *material prelucrat: lemn esente tari, esente moi, panouri aglomerate, produse sintetice*
- *masini: masina normala de frezat*
- *avans manual, avans mecanic*

***D** - diametrul exterior*
***B/B1** - inaltime minima / inaltime maxima*
***d** - alezaj*
***Z** - numar de dinti + numar pretaietori*





	D	B / B1	Z	d	
0138999S4-8	150	4 / 8	4 + 4	30	**2323,22**
0138999S6-12	150	6 / 12	4 + 4	30	**2439,72**
0138999S8-16	150	8 / 16	4 + 4	30	**2574,04**
0138999S10-20	150	10 / 20	4 + 4	30	**2892,58**

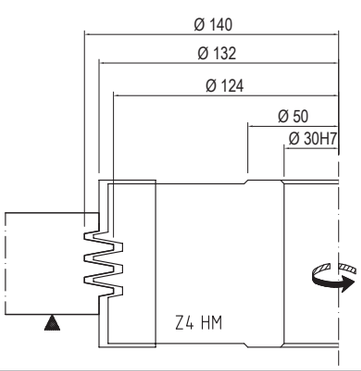
0095999

Freze cu alezaj, pentru imbinari, cu placute brazate CMS

- *corp metalic cu cutite brazate din CMS*
- *material prelucrat: lemn esente tari, esente moi*
- *masini: masina normala de frezat*
- *avans manual, avans mecanic*

***D** - diametrul exterior*
***B** - inaltime*
***d** - alezaj*
***Z** - numar de dinti*





	D	B	Z	d	
0095999	140	46	4	30	**3699,21**

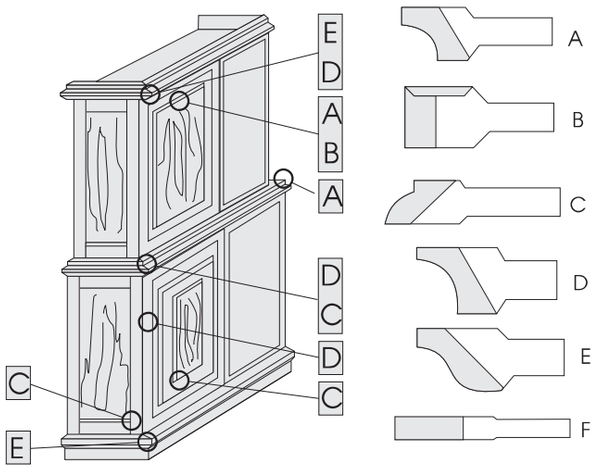
0055999

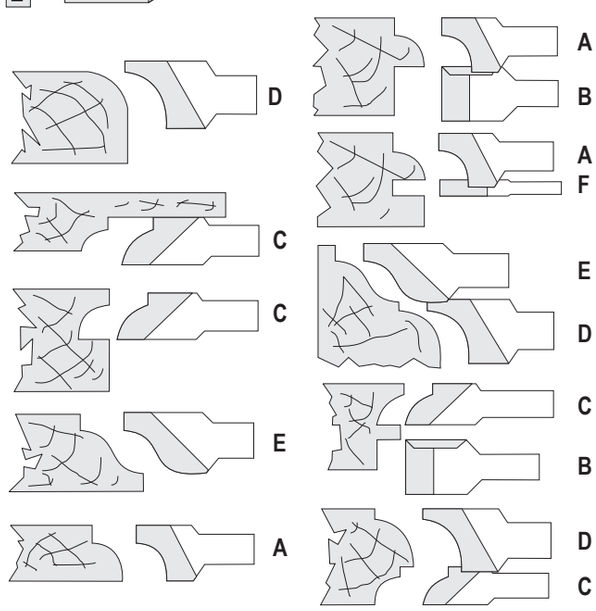
Set freze profilate pentru mobilier antic

- *set 6 freze placate CMS pentru realizarea profilelor de mobilier*
- *frezele pot fi utilizate individual sau in set*
- *materiel prelucrat: lemn masiv de esente tari, sau moi, fara noduri*
- *masini: masina normala de frezat*
- *avans manual, avans manual*

***D** - diametrul exterior*
***B** - inaltime*
***d** - alezaj*
***Z** - numar de dinti*







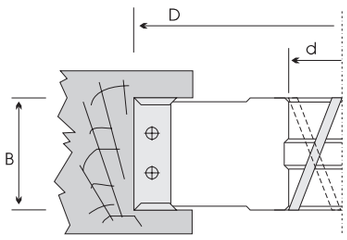
	Z	d	
0055999	3	30	**9520,61**

0095999

Freza falt cu placute amovibile

- *freza penru realizarea falturilor sau intreptarilor de cant, cu pretaietori pentru finisarea unghiurilor vii*
- *corpul realizat din otel*
- *material prelucrat: lemn esente tari, esente moi, panouri aglomerate, produse sintetice*
- *masini: masina normala de frezat*
- *avans manual, avans mecanic*
- ***D** - diametrul exterior*
- ***B** - inaltime*
- ***d** - alezaj*
- ***Z** - numar de dinti*





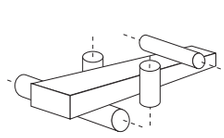
	D	B	Z	d	
0262004	125	50	4 + 4	30	**1377,75**

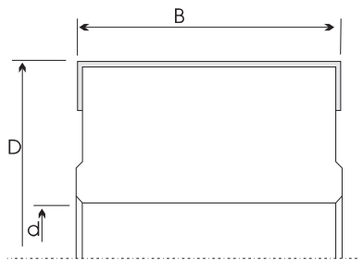
030500

Cap de rindeluit cu cutite plane

- *corpul realizat din aluminiu*
- *masini: masina 4 fete, sau utilaje de degrosat*
- *avans manual, avans mecanic*
- ***D** - diametrul exterior*
- ***B** - inaltime*
- ***d** - alezaj*
- ***Z** - numar de dinti*







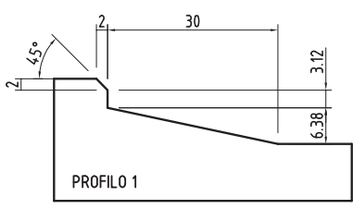
	D	B	Z	d	
0305004	125	120	4	40	**2006,18**
0305008	125	180	4	40	**2547,95**
0305009	125	230	4	40	**3019,24**

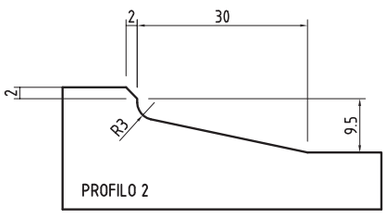
0215001

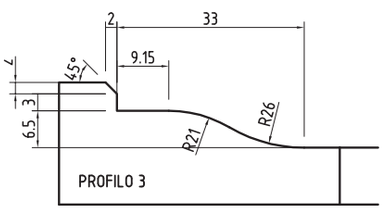
Freza tablie multiprofil, cu alezaj si placute amovibile, frezare de sus

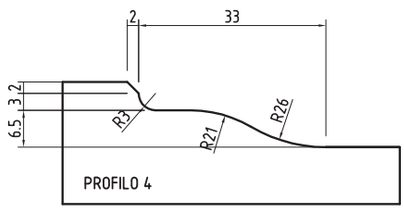
- *pe aceelasi corp si pot monta placute amovibile cu diferite profile*
- *cap de frezat realizat din aluminiu cu prindere mecanica a placutelor amovibile baza mare sus*
- *material prelucrat: lemn esente tari, esente moi*
- *sens de rotatie: dreapta*
- *masini: masina normala de frezat*
- *avans manual*
- ***D** - diametrul exterior*
- ***B** - inaltime*
- ***d** - alezaj*
- ***Z** - numar de dinti*

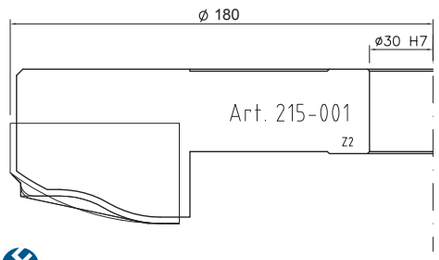


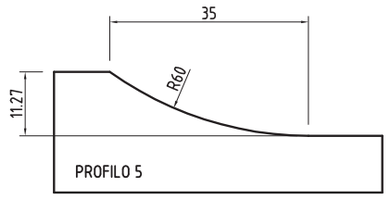










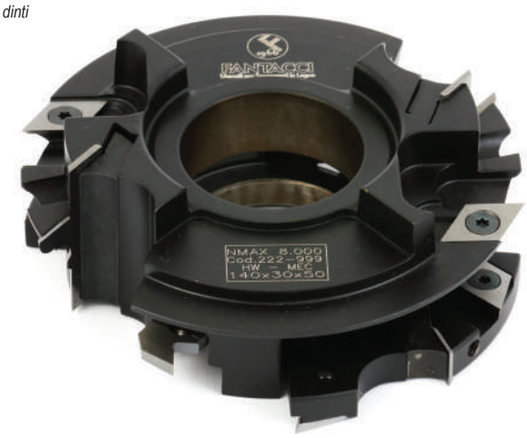


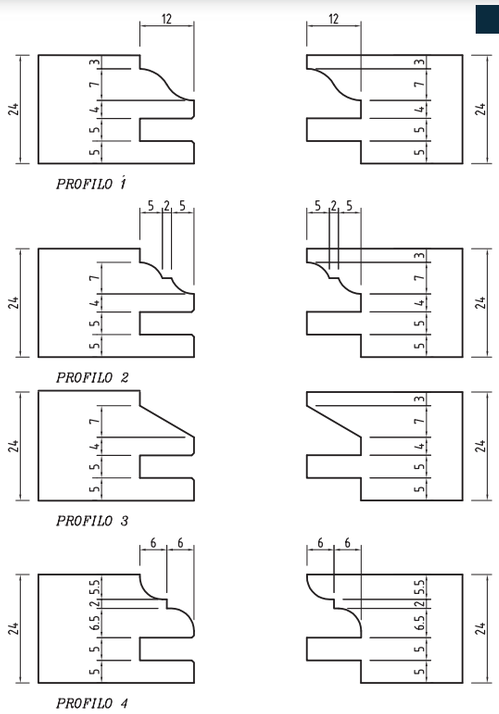
	D	B	Z	d	
0215001	160	25	2	30	**2695,81**

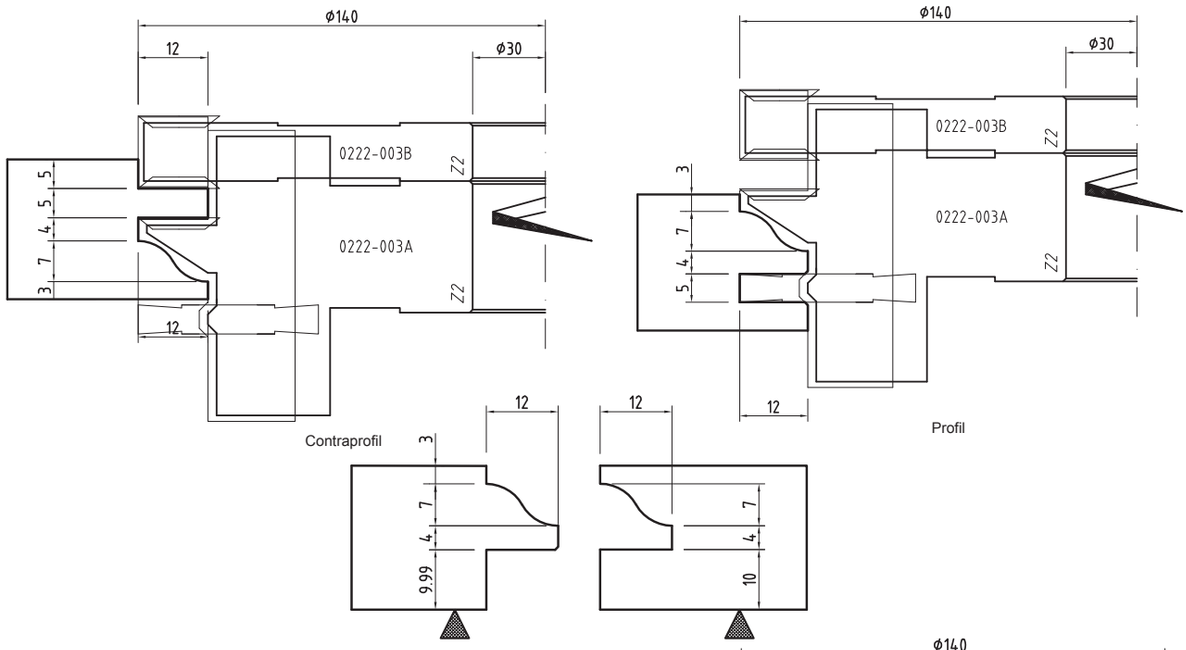
02220032

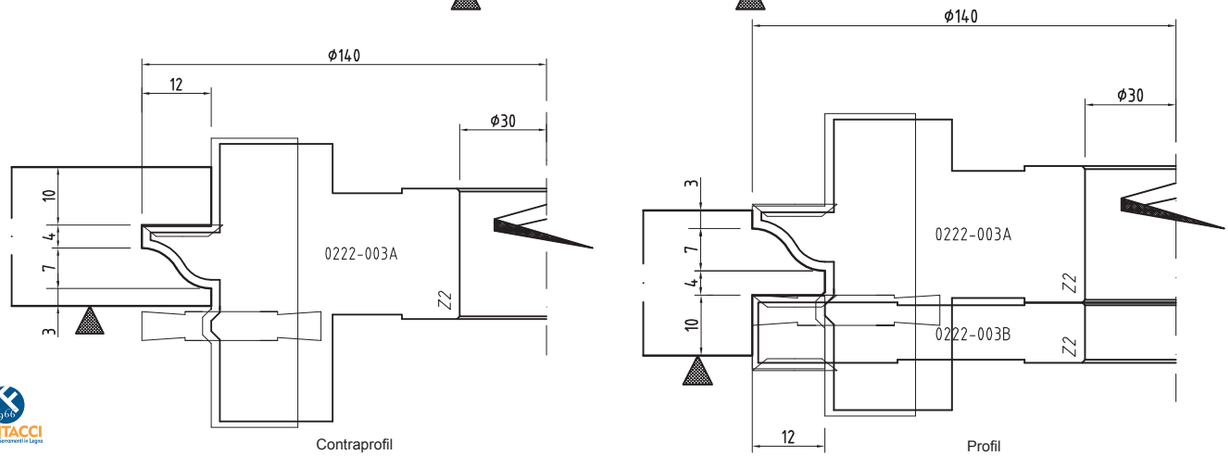
Freza tablie multiprofil, cu alezaj si placute amovibile, frezare de sus

- *pe aceelasi corp si pot monta placute amovibile cu diferite profile, Z2*
- *cap de frezat realizat din aluminiu cu prindere mecanica a placutelor amovibile baza mare sus*
- *material prelucrat: lemn esente tari, esente moi*
- *sens de rotatie: dreapta*
- *masini: masina normala de frezat*
- *avans manual sau mecanic*
- ***D** - diametrul exterior*
- ***B** - inaltime*
- ***d** - alezaj*
- ***Z** - numar de dinti*









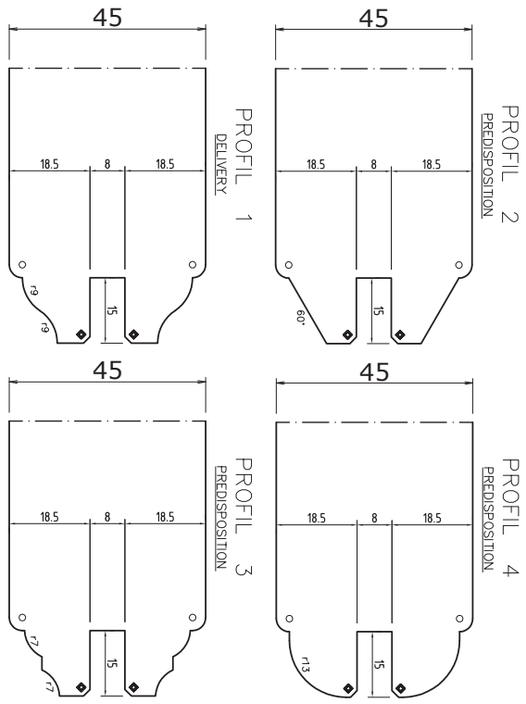
	D	B	Z	d	
0222003	140	24/28	2	30	**3976,50**

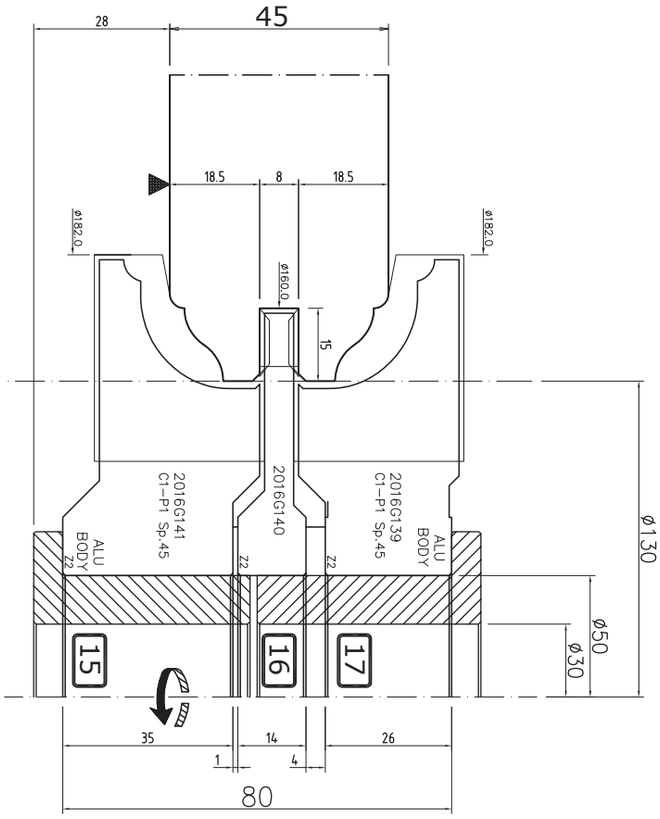
9999003INT

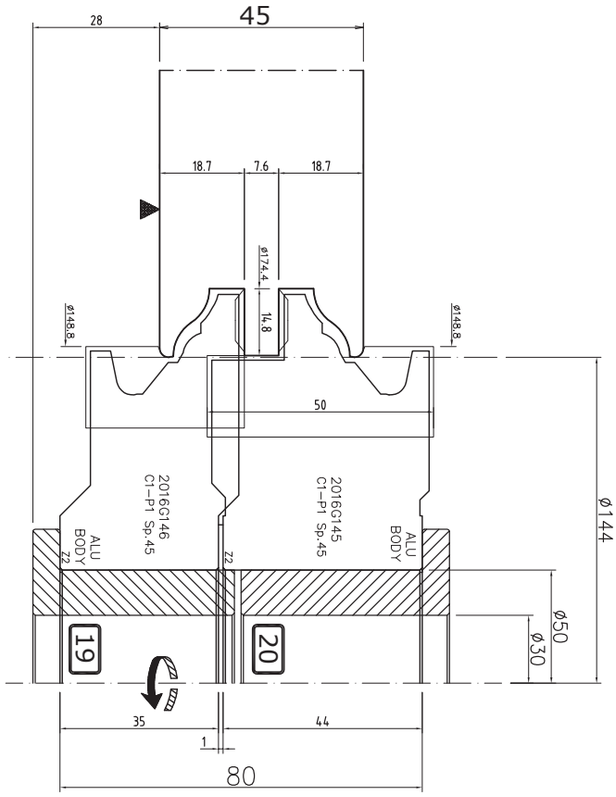
Set profil contraprofil pentru usi interior

• set de freze cu placute amovibile, Z2
• realizeaza profilul si contraprofilul foii de usa cu grosimea de 45 mm
posibilitatea de a avea 4 profile diferite, cu aceelasi corp al frezei, schimband doar setul de placute
• material prelucrat: lemn esente tari, esente moi
• sens de rotatie: dreapta
• masini: masina normala de frezat
• avans manual
***D** - diametrul exterior*
***B** - inaltime*
***d** - alezaj*
***Z** - numar de dinti*









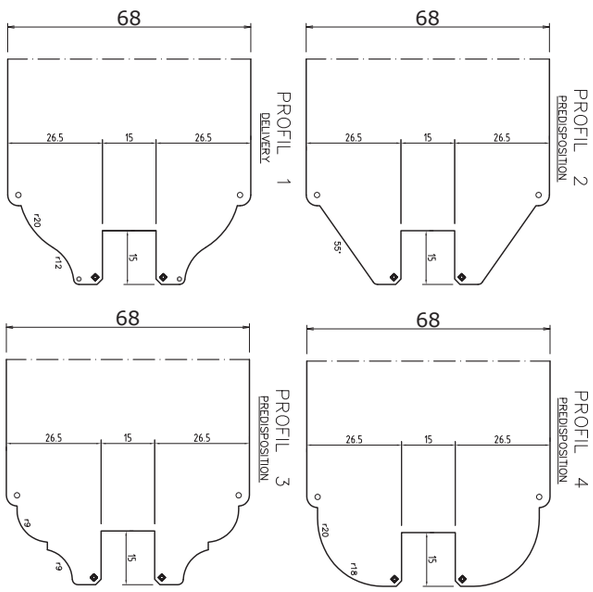
	B	Z	d	
9999003INT	45	2	30	**1727520**

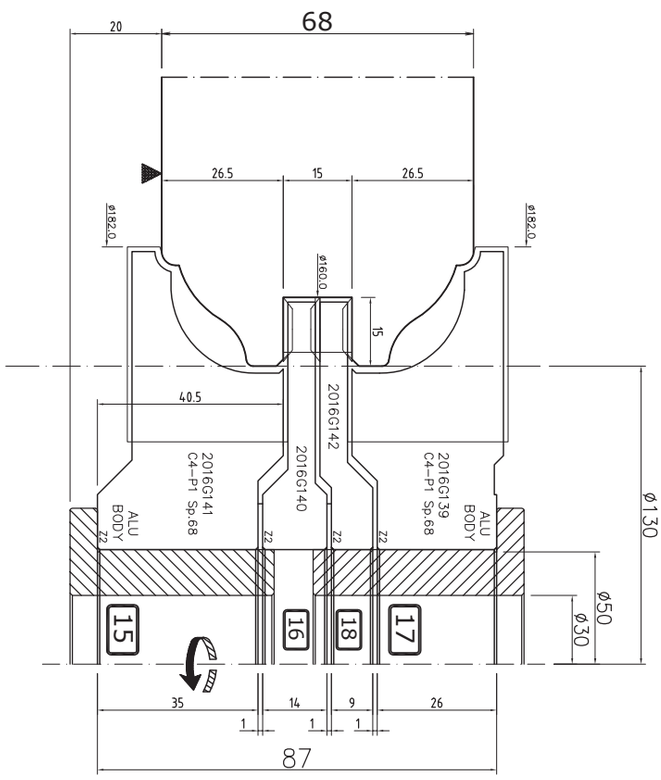
9999003EXT

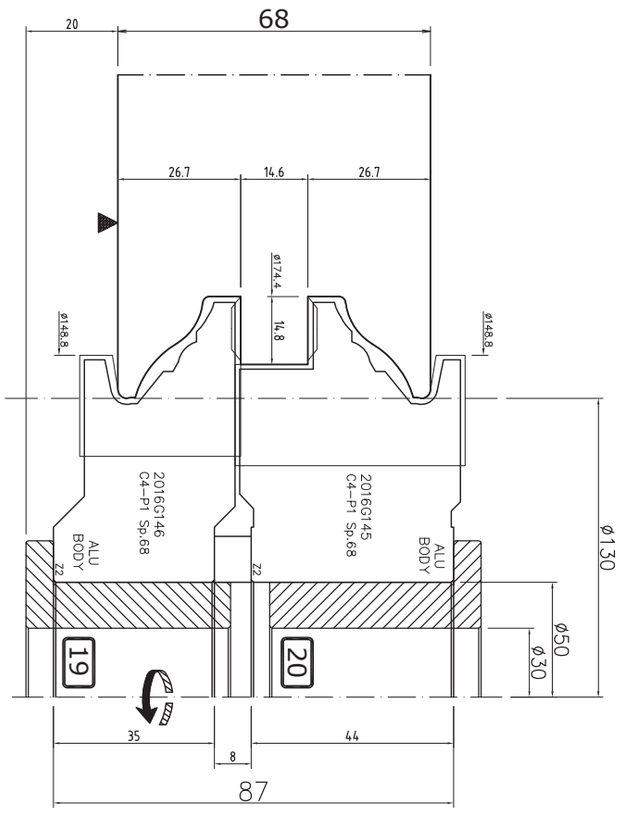
Set profil contraprofil pentru usi exterior

• set de freze cu placute amovibile, Z2
• realizeaza profilul si contraprofilul foii de usa cu grosimea de 68 mm
posibilitatea de a avea 4 profile diferite, cu aceelasi corp al frezei, schimband doar setul de placute
• material prelucrat: lemn esente tari, esente moi
• sens de rotatie: dreapta
• masini: masina normala de frezat
• avans manual
***D** - diametrul exterior*
***B** - inaltime*
***d** - alezaj*
***Z** - numar de dinti*









	B	Z	d	
9999003EXT	68	2	30	**18466,60**

1-3C/S

Rindea de lemn pentru operatii de degrosare

- *unghiul de taiere 45°*
- *corp lemn fag, talpa carpen*
- *urma de degrosare semirotunda*



	Dim.	L	H	I	Unghi	
1-36C/S	36	200	55	130	45°	**128.98**
1-39C/S	39	200	55	130	45°	**131.60**

2-3E/E

Rindea de lemn pentru operatii de degrosare EKO

- *unghiul de taiere 45°*
- *corp integral lemn fag*
- *se utilizeaza pentru indreptarea urmei rindelei de degrosare sau direct degrosare*



	Dim.	L	H	I	Unghi	
2-39E/E	39	200	55	130	45°	**81,06**

3-4C/S

Rindea de lemn pentru finisarea suprafetelor

- *unghiul de taiere 45°*
- *corp din fag, talpa carpen*
- *umiditate 10%*
- *se utilizeaza la specii de lemn de esenta moale*



	Dim.	L	H	I	Unghi	
3-45C/S	45	200	65	130	45°	**144.54**

1-30S

Cutit de rindea pentru degrosare art. 1-3

- *utilizat invers razuieste suprafete de lemn dur*



	Dim.	L	H	I	G	
1-360S	36	175	3	39	146	**75.05**
1-390S	39	175	3	39	158	**78.13**

2-30S

Cutit de rindea pentru indreptare-degrosare art. 2-3 si 2-3 EKO

- *se utilizeaza pentru indreptarea urmei rindelei de degrosare sau direct pentru degrosare*



	Dim.	L	H	I	G	
2-360S	36	175	3	39	150	**63.80**
2-390S	39	175	3	39	170	**65.18**

3-40

Cutit de rindea cu spargator aschie pentru finisare 3-4

- *cu spargator de aschie*
- *se utilizeaza la finisarea suprafetelor*



	Dim.	L	H	I	G	
3-450S	45	182	8	45	276	**87.99**

2-3C/S

Rindea de lemn pentru operatii de indreptare-degrosare

- *unghiul de taiere 45°*
- *corp lemn fag, talpa carpen*
- *urma de degrosare plana*



	Dim.	L	H	I	Unghi	
2-36C/S	36	200	55	130	45°	**114.34**
2-39C/S	39	200	55	130	45°	**116.04**





3A-4C/S

Rindea de lemn pentru netezirea-finisarea suprafetelor

- *unghiul de taiere 49°*
- *corp lemn de fag, talpa carpen*
- *se utilizeaza la neteziree speciilor de lemn de esenta dura si suprafetelor de lemn furniruit.*



	Dim.	L	H	I	Unghi	
3A-45C/S	45	220	65	140	49°	**153.17**

3A-40S

Cutit de rindea cu spargator aschie pentru netezire-finisare 3A-4

- *cu spargator de aschie*
- *se utilizeaza la finisarea suprafetelor furniruite, netezire*



	Dim.	L	H	I	G	
3A-450S	45	182	8	45	276	**87.99**

6-5 / 6-6 C/S

Rindea de lemn (gealau) pentru indreptare suprafete mari

- *unghiul de taiere 49°*
- *corp lemn de fag, talpa carpen*
- *geluieste / indreapta suprafete mari*



	Dim.	L	H	I	Unghi	
6-51C/S	51	510	70	155	45°	**283.08**
6-6060C/S	60	600	80	155	45°	**325.76**

6-51 / 6-60 S

Cutit de rindea gealau cu spargator de aschie indreptat suprafete mari

- *cu spargator de aschie*
- *se utilizeaza la indreptarea de suprafete mari*



	Dim.	L	H	I	G	
6-510S	51	182	8	51	293	**105.25**
6-600S	60	182	8	60	345	**113.88**

10 C/S

Rindea de lemn pentru falt

- *unghiul de taiere 45°*
- *corp integral din fag*
- *se utilizeaza la indreptarea falturilor la usi si ferestre*



	Dim.	L	H	I	Unghi	
10-18C/S	18	255	18	155	45°	**84.60**
10-24C/S	24	255	24	155	45°	**87.22**
10-30C/S	30	255	30	155	45°	**92.30**

11 C/S

Rindea de lemn de capat pentru falt

- *unghiul de taiere 45°*
- *corp integral din fag*
- *pozitionare cutit la inceputul rindelei*
- *indreapta faltul la colturi, la usi si ferestre*



	Dim.	L	H	I	Unghi	
11-18C/S	18	160	18	155	45°	**84.60**
11-24C/S	24	160	24	155	45°	**87.22**
11-30C/S	30	160	30	155	45°	**92.30**

12 C/S

Rindea de lemn pentru falt, dubla, cu 2 locase cutit

- *unghiul de taiere 45°*
- *corp integral din fag*
- *se utilizeaza la indreptarea falturilor pe lungime si la colturi, la usi si ferestre.*



	Dim.	L	H	I	Unghi	
12-18C/S	18	255	18	155	45°	**97.54**
12-24C/S	24	255	24	155	45°	**99.70**
12-30C/S	30	255	30	155	45°	**109.10**

10 S

Cutit de rindea de falt

- *se utilizeaza la toate rindelele de falt*



	Dim.	L	H	I	G	
10-181S	18	183	3	18	41	**45.30**
10-241S	24	183	3	24	53	**49.62**
10-331S	30	183	3	30	78	**58.25**

10-21C/S

Rindea de lemn de falt cu cutit oblic

- *unghiul de taiere 45°*
- *corp integral din fag*
- *se utilizeaza la indreptarea falturilor la usi si ferestre*
- *planul de taiere obligic la 25°*



	Dim.	L	H	I	Unghi	
10-21C/S	24	255	21	155	45°	**127.29**

10-211S

Cutit de rindea de falt cu taiere oblica

- *se utilizeaza in rindeaua de falt pentru taiere oblica a cutitului*



	Dim.	L	H	I	G	
10-211S	21	183	3	24	53	**75.51**

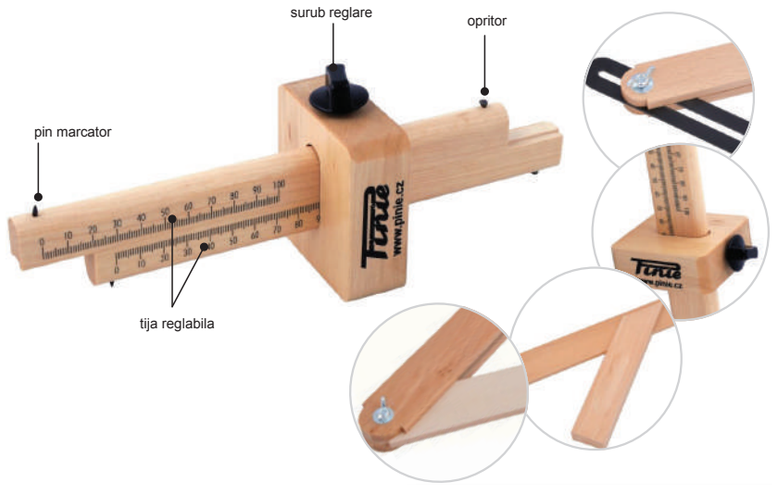
40-1

Raportor de lemn

- *se utilizeaza la copierea de unghiuri si transferul lor prin copiere pe semifabricate de lemn*



	Dim.	L	H	I	G	
40-1	0°-340°	350	50	24	250	**47.62**



30

Strangator reglabil cu falci de lemn

• *se utilizeaza la prinderea semifabricatului lemnos pe pozitite atunci cand strangatorul metalic este prea greu*



	Dim.	L	H	I	G	
30-200	200x110	290	145	24	500	**57.53**

41-1

Marcator dublu, cu 1 opritor (zgarieci)

• *se utilizeaza la masurarea si marcarea dimensiunilor in vederea taierii semifabricatelor din lemn*



	Dim.	L	H	I	G	
41-1	170	210	65	75	200	**47.25**

41-3

Marcator dublu, cu 2 opritoare (zgarieci)

• *se utilizeaza la masurarea si marcarea dimensiunilor in vederea taierii semifabricatelor din lemn*



	Dim.	L	H	I	G	
41-3	170	210	65	75	200	**51.56**

52

Ciocan de lemn pentru dulgherie

• *din lemn de fag*



	Dim.	L	H	I	G	
52-1	350	105	65	300	350	**57.44**
52-2	650	140	65	330	650	**76.73**
52-3	800	160	65	330	800	**80.69**

53

Ciocan de lemn pentru tamplarie

• *din lemn de fag*



	Dim.	L	H	Ø	G	
53-1	300	300	120	60	350	**35.22**
53-2	350	300	140	70	650	**38.42**

56

Ciocan de lemn pentru sculptura

• *din lemn de fag*



	Dim.	G	
56-1	Φ 80	350	**66.02**
56-2	Φ 100	650	**100.97**
56-3	Φ 120	650	**128.15**

52-4 / 53-3 / 56-4

Coada ciocan

• *din lemn de fag*



	Dim.	H	G	
52-4	Φ25x300	53-1, 53-2, 52-1	110	**9.38**
53-4	Φ30x300	52-2, 52-3	160	**10,63**

54

Ciocan de lemn ranforsat

• *din lemn de fag ferecat in inele de metal*



	Dim.	L	H	Ø	G	G	
54-1	6000	950	230	170	6000		**597.59**

HOBBY 2-0

Tejghea de tamplarie lemn

• *dimesiuni 1500x600x850 mm*
• *blatul de lucru 1500x600x40 mm*
• *greutate 52 kg*
• *are un strangator cu surub metalic*



	Dim.	Blat	G	
HOBBY 2-0	1500x600x850	1500x600x40	52000	**3410.81**

HOBBY 3-0

Tejghea de tamplarie lemn

• *dimesiuni 2000x600x850 mm*
• *blatul de lucru 2000x600x40 mm*
• *greutate 61 kg*
• *are un strangator cu surub metalic*



	Dim.	Blat	G	
HOBBY 3-0	2000x600x850	2000x600x40	61000	**3751.83**

SCHOOL 1/700

Tejghea de tamplarie scolari

- *dimensiuni 1450x1450x700 mm*
- *se utilizeaza in atelierele scoala pentru copii*
- *inaltimea de lucru 700 mm, 4 posturi de lucru fiecare echipat cu strangatoare cu ax metalic*



	Dim.	Blat	G	
SCHOOL 1/700	1450x1450x700	1300x1300x80	160000	**12,642.23**

SCHOOL 1/850

Tejghea de tamplarie scolari

- *dimensiuni 1450x1450x850 mm*
- *se utilizeaza in atelierele scoala pentru copii*
- *inaltimea de lucru 850 mm, 4 posturi de lucru fiecare echipat cu strangatoare cu ax metalic*



	Dim.	Blat	G	
SCHOOL 1/850	1450x1450x850	1300x1300x80	165000	**12,642.23**

PROFI II 1500

Tejghea de tamplarie profesionala

- *dimensiuni 1650x790x850 mm*
- *se utilizeaza in atelierele traditionale profesionale de tamplarie*
- *inaltimea de lucru 850 mm, 2 posturi de lucru fiecare echipat cu strangatoare cu ax metalic*



	Dim.	Blat	G	
PROFI II 1500	1650 x 790 x 850 mm	1500 x 640 x 120 mm	173000	**13828.79**

PROFI 2000

Tejghea de tamplarie profesionala

- *dimesiuni 2150x790x850 mm*
- *blatul de lucru 2000x640x120 mm*
- *greutate 184 kg*
- *are 2 strangatoare cu surub metalic*



	Dim.	Blat	G	
PROFI 2000	2150x790x850	2000x640x120	184000	**14958.79**



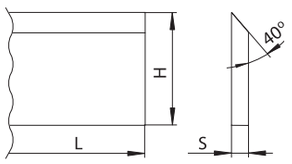
Inca de la infiintarea sa, in 2000, compania Pinie Lubna, Ltd. s-a concentrat pe productia si vanzarea brandului Pinie® de scule din lemn pentru tamplarie. Brandul impreuna cu tehnologia de fabricare si materia prima au fost achizitionate in anul 2000 de la compania Pinie Čistá, Ltd.
Istoria brandului Pinie® dateaza din anul 1918. Initial, manerele din lemn au fost fabricate sub marca proprie, iar in 1932, a fost lansata productia de avioane din lemn. In acea perioada, avioanele de lemn reprezintau nucleul de productie al companiei.
In prezent, compania are 23 de angajati permanenti si produce mai mult de 500 de produse diferite pentru utilizatorii cu ridicata, cu amanuntul si consumatorii finali. Linia de productie include, in principal: scule de tamplarie, mese si bancuri de lucru pentru tamplarie si lacatuserie, precum si materiale conjunctive. Produsele Pinie® satisfac cele mai inalte criterii de calitate.

13355-30

Cutite de rindeluit/abric HSS18%-1.3355 latime 30 mm pentru lemn dur

• material: 1.3355 pentru lemn dur, 1.3343 pentru lemn dur si moale, 1.2379 pentru lemn moale, 1.2067 pentru lemn moale.
• cutite de rindeluit fabricate cu dimensiuni metrice si in toli "la comanda",
• cutite de rindeluit cu durata de viata dubla
• duritatea cutitelor de rindeluit 59 pana la 64 HRC
• prelucrare termica executata in cuptoare speciale, comandate prin calculator
• productie la comanda a cutitelor de rindeluit cu dimensiuni arbitrare





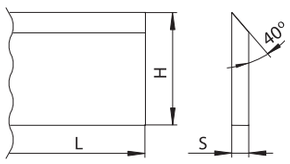
	U.M.	L x H x S	
13355-30-1003030	mm	100x30x3.0	**30.08**
13355-30-1203030	mm	120x30x3.0	**36.10**
13355-30-1303030	mm	130x30x3.0	**39.10**
13355-30-1503030	mm	150x30x3.0	**45.12**
13355-30-1803030	mm	180x30x3.0	**54.14**
13355-30-2103030	mm	210x30x3.0	**63.17**
13355-30-2403030	mm	240x30x3.0	**72.19**
13355-30-2603030	mm	260x30x3.0	**78.21**
13355-30-3103030	mm	310x30x3.0	**93.25**
13355-30-4003030	mm	400x30x3.0	**120.32**
13355-30-4103030	mm	410x30x3.0	**123.33**
13355-30-4503030	mm	450x30x3.0	**135.36**
13355-30-5003030	mm	500x30x3.0	**150.40**
13355-30-5103030	mm	510x30x3.0	**153.41**
13355-30-5303030	mm	530x30x3.0	**159.42**
13355-30-6103030	mm	610x30x3.0	**183.49**
13355-30-6403030	mm	640x30x3.0	**192.51**
13355-30-7103030	mm	710x30x3.0	**213.57**
13355-30-8103030	mm	810x30x3.0	**243.65**
13355-30-9103030	mm	910x30x3.0	**273.73**
13355-30-10003030	mm	1000x30x3.0	**300.80**
13355-30-10103030	mm	1010x30x3.0	**303.81**
13355-30-10503030	mm	1050x30x3.0	**315.84**
13355-30-12203030	mm	1220x30x3.0	**366.98**

13355-35

Cutite de rindeluit/abric HSS18%-1.3355 latime 35 mm pentru lemn dur

• material: 1.3355 pentru lemn dur, 1.3343 pentru lemn dur si moale, 1.2379 pentru lemn moale, 1.2067 pentru lemn moale.
• cutite de rindeluit fabricate cu dimensiuni metrice si in toli "la comanda",
• cutite de rindeluit cu durata de viata dubla
• duritatea cutitelor de rindeluit 59 pana la 64 HRC
• prelucrare termica executata in cuptoare speciale, comandate prin calculator
• productie la comanda a cutitelor de rindeluit cu dimensiuni arbitrare





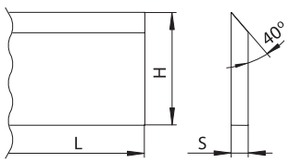
	U.M.	L x H x S	
13355-35-1003030	mm	100x30x3.0	**32.39**
13355-35-1203030	mm	120x30x3.0	**38.87**
13355-35-1303030	mm	130x30x3.0	**42.11**
13355-35-1503030	mm	150x30x3.0	**48.59**
13355-35-1803030	mm	180x30x3.0	**58.30**
13355-35-2103030	mm	210x30x3.0	**68.02**
13355-35-2403030	mm	240x30x3.0	**77.74**
13355-35-2603030	mm	260x30x3.0	**84.22**
13355-35-3103030	mm	310x30x3.0	**100.41**
13355-35-4003030	mm	400x30x3.0	**129.57**
13355-35-4103030	mm	410x30x3.0	**132.81**
13355-35-4503030	mm	450x30x3.0	**145.76**
13355-35-5003030	mm	500x30x3.0	**161.96**
13355-35-5103030	mm	510x30x3.0	**165.20**
13355-35-5303030	mm	530x30x3.0	**171.67**
13355-35-6103030	mm	610x30x3.0	**197.59**
13355-35-6403030	mm	640x30x3.0	**207.31**
13355-35-7103030	mm	710x30x3.0	**229.98**
13355-35-8103030	mm	810x30x3.0	**262.37**
13355-35-9103030	mm	910x30x3.0	**294.76**
13355-35-10003030	mm	1000x30x3.0	**323.91**
13355-35-10103030	mm	1010x30x3.0	**327.15**
13355-35-10503030	mm	1050x30x3.0	**340.11**
13355-35-12203030	mm	1220x30x3.0	**395.18**

12067-30

Cutite de rindeluit/abric DS-1.2067 latime 30 mm pentru lemn moale

• material: 1.3355 pentru lemn dur, 1.3343 pentru lemn dur si moale, 1.2379 pentru lemn moale, 1.2067 pentru lemn moale.
• cutite de rindeluit fabricate cu dimensiuni metrice si in toli "la comanda",
• cutite de rindeluit cu durata de viata dubla
• duritatea cutitelor de rindeluit 59 pana la 64 HRC
• prelucrare termica executata in cuptoare speciale, comandate prin calculator
• productie la comanda a cutitelor de rindeluit cu dimensiuni arbitrare





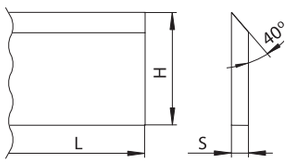
	U.M.	L x H x S	
12067-30-1003030	mm	100x30x3.0	**13.00**
12067-30-1203030	mm	120x30x3.0	**15.60**
12067-30-1303030	mm	130x30x3.0	**16.90**
12067-30-1503030	mm	150x30x3.0	**19.51**
12067-30-1803030	mm	180x30x3.0	**23.41**
12067-30-2103030	mm	210x30x3.0	**27.31**
12067-30-2403030	mm	240x30x3.0	**31.21**
12067-30-2603030	mm	260x30x3.0	**33.81**
12067-30-3103030	mm	310x30x3.0	**40.31**
12067-30-4003030	mm	400x30x3.0	**52.01**
12067-30-4103030	mm	410x30x3.0	**53.31**
12067-30-4503030	mm	450x30x3.0	**58.52**
12067-30-5003030	mm	500x30x3.0	**65.00**
12067-30-5103030	mm	510x30x3.0	**66.32**
12067-30-5303030	mm	530x30x3.0	**68.91**
12067-30-6103030	mm	610x30x3.0	**79.32**
12067-30-6403030	mm	640x30x3.0	**83.22**
12067-30-7103030	mm	710x30x3.0	**92.32**
12067-30-8103030	mm	810x30x3.0	**105.32**
12067-30-9103030	mm	910x30x3.0	**118.33**
12067-30-10003030	mm	1000x30x3.0	**130.03**
12067-30-10103030	mm	1010x30x3.0	**131.32**
12067-30-10503030	mm	1050x30x3.0	**136.54**
12067-30-12203030	mm	1220x30x3.0	**158.63**

12067-35

Cutite de rindeluit/abric DS-1.2067 latime 35 mm pentru lemn moale

• material: 1.3355 pentru lemn dur, 1.3343 pentru lemn dur si moale, 1.2379 pentru lemn moale, 1.2067 pentru lemn moale.
• cutite de rindeluit fabricate cu dimensiuni metrice si in toli "la comanda",
• cutite de rindeluit cu durata de viata dubla
• duritatea cutitelor de rindeluit 59 pana la 64 HRC
• prelucrare termica executata in cuptoare speciale, comandate prin calculator
• productie la comanda a cutitelor de rindeluit cu dimensiuni arbitrare





	U.M.	L x H x S	
12067-35-1003030	mm	100x30x3.0	**14.64**
12067-35-1203030	mm	120x30x3.0	**17.57**
12067-35-1303030	mm	130x30x3.0	**19.04**
12067-35-1503030	mm	150x30x3.0	**21.96**
12067-35-1803030	mm	180x30x3.0	**26.35**
12067-35-2103030	mm	210x30x3.0	**30.76**
12067-35-2403030	mm	240x30x3.0	**35.13**
12067-35-2603030	mm	260x30x3.0	**38.07**
12067-35-3103030	mm	310x30x3.0	**45.39**
12067-35-4003030	mm	400x30x3.0	**58.56**
12067-35-4103030	mm	410x30x3.0	**60.03**
12067-35-4503030	mm	450x30x3.0	**65.89**
12067-35-5003030	mm	500x30x3.0	**73.21**
12067-35-5103030	mm	510x30x3.0	**74.68**
12067-35-5303030	mm	530x30x3.0	**77.60**
12067-35-6103030	mm	610x30x3.0	**89.32**
12067-35-6403030	mm	640x30x3.0	**93.71**
12067-35-7103030	mm	710x30x3.0	**103.96**
12067-35-8103030	mm	810x30x3.0	**118.60**
12067-35-9103030	mm	910x30x3.0	**133.25**
12067-35-10003030	mm	1000x30x3.0	**146.43**
12067-35-10103030	mm	1010x30x3.0	**147.90**
12067-35-10503030	mm	1050x30x3.0	**153.75**
12067-35-12203030	mm	1220x30x3.0	**178.64**



SCULE INSTALATORI

Numeroase parti suplimentare

Linia de chei pentru tevi este completata de alte scule dedicate lucrului cu instalatii de tevi, asa cum sunt diverse scule taietoare, menghine, pompe de test, etc.

Forma ergonomica

Multumita formei sale ergonomice, cheia speciala cu prindere de tevi se potriveste perfect in mana, asigurand o priza ferma si antiderapanta pe toate tipurile de tevi, indiferent de forma sau latime

Instalare usoara

Sculelele pentru tevi Unior permit instalarea eficace si sigura a sistemelor de tevi, pentru ca permit transferul esential al efortului spre tevi si furnizeaza o priza ferma si stabila fara buloane sau bolturi

UNIOR

Clesti multipriza si pentru tevi 672

Scule de indoit si taiat 677

Cheie cu lant si pompa de test 681

Menghina si stand 682

Prodcedura speciala de fabricarea a sculelor de instalator

FALCI REGLABILE

1. Decupare: Bara de otel este decupata de o masina la forma ceruta; precizia decuparii asigura un surplus minim de materie prima

2. Forjare: Piesele forjate sunt realizate folosind forjarea la cald. Aceasta permite forme variate si ergonomice ale produselor. Orientarea potrivita a fibrelor (aceeasi ca in barele de otel) este mentinuta folosind procesele corespunzatoare de forjare.



3. Debavurare: eliminarea bavurilor dupa forjare.

4. Brosare: geometria corespunzatoare a falcilor este obtinuta prin brosare. Aceasta asigura o prindere optima si rezistenta la uzura.

5. Operare CNC: pe o masina CNC este executata folosind dispozitive speciale de fixare care asigura precizia dimensiunilor si funcionalitatii in ceea ce priveste miscarile tuturor elementelor.



6. Intarire prin inductie: Tratamentul termic local de durizare si calire asigura partii functionale a cheii un grad inalt de duritate. Prin durizare se poate obtine microstructura optima, ceea ce asigura falcilor o durata lunga de serviciu

FALCI FIXE

7. Decupare: Bara de otel este decupata de o masina la forma ceruta; precizia decuparii asigura un surplus minim de materie prima.



8. Forjare: Piesele forjate sunt facute folosind forjarea la cald. Aceasta permite forme variate si ergonomice ale produselor. Orientarea potrivita a fibrelor (aceeasi ca in barele de otel) este mentinuta folosind procesele corespunzatoare de forjare.

9. Debavurare: eliminarea bavurilor dupa forjare.

10. Brosare: geometria corespunzatoare a falcilor este obtinuta prin brosaj. Aceasta asigura o prindere optima si rezistenta la uzura.



ASAMBLARE

11. Nituire: Nitul asigura o imbinare solida a falcilor.

12. Tratament termic (calire si revenire): Tratamentul termic de calire si revenire este folosit pentru imbunatatirea structurii otelului, ca sa furnizeze o mai buna rezisenta si duritate produsului si alte caracteristici necesare pentru a depasi tensiunile pe care le cere lucrul cu acest produs

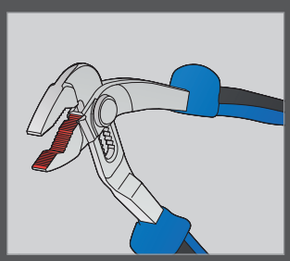


13. Durificare prin inductie: Tratamentul termic local de calire prin inductie asigura partii functionale a cheii un grad inalt de duritate. Prin acesta se poate obtine microstructura optima, ceea ce asigura falcilor o durata lunga de serviciu

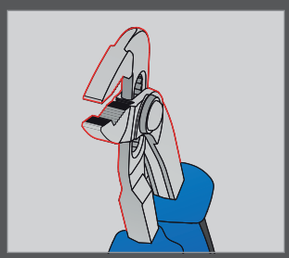
14. Vopsire: Un strat de vopsea protectoare este aplicat folosind un procedeu de vopsire cu pulberi, ceea ce confera produsului un aspect profesional si foloseste si ca suprafata de protectie.



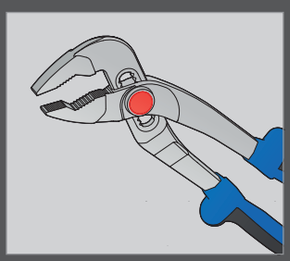
447/1HPP



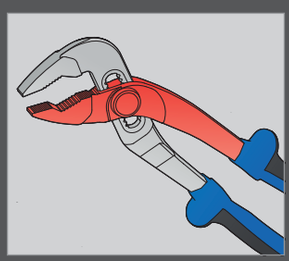
dantura dintilor este conceputa pentru a asigura strangerea optima a piesei



strangere ferma: designul si forma falcilor asigura o mai buna strangere a piesei, avand ca rezultat stabilitatea, siguranta si un randament mai bun.



clestii HPP sunt prevazuti cu un buton pentru reglarea rapida a deschiderii falcilor, asigurand o rapida si precisa adaptare a acestora pe piesa.



deschiderea falcilor reglabila in 10 pozitii.



447/1HPP

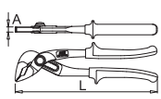
Cleste reglabil cu blocare pentru instalatori

- *material: crom vanadium*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*

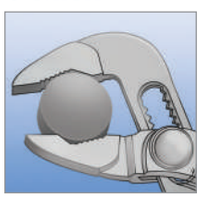
Avantaje:

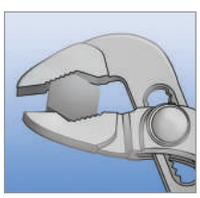
- *dantura dintilor este conceputa pentru a asigura strangerea optima a piesei*
- *deschiderea falcilor reglabila in 10 pozitii*
- *clestii HPP sunt prevazuti cu un buton pentru reglarea rapida a deschiderii falcilor, asigurand o rapida si precisa adaptare a acestora pe piesa*
- *strangere ferma: designul si forma falcilor asigura o mai buna strangere a piesei, avand ca rezultat stabilitate, siguranta si un randament mai bun.*
- *lucrul cu clestele: cu toata constructia supla a acestuia, falcile asigura lucrul cu o singura mana in locurile de lucru extrem de dificile*
- *confectionate din doua componente reducand alunecarea mainii in timpul lucrului si asigurand siguranta si eficienta a mainii in actionarea falcilor.*
- *ergonomie: manerele sunt proiectate pentru o adaptare perfecta a mainii si asigura o mai mare strangere si siguranta.*

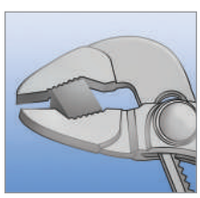




UNIOR







	L	A					
620172	240	8.5	40	392	4B	1	**147,05**

447/1HPPST

Set de clesti reglabili cu blocare pentru instalatori in display de carton

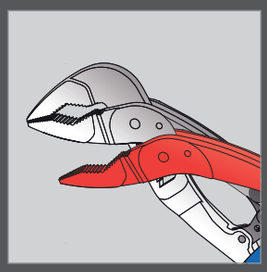


UNIOR

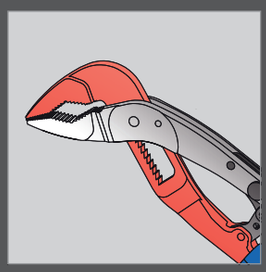
621856	6	2750	1F	1	**935,74**

447/1HPP (240)

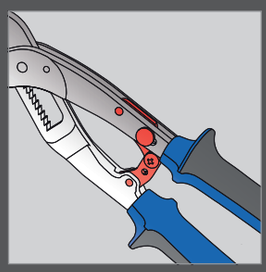
CARACTERISTICI
442/1HYPO



Deschiderea maxima a falcilor: Ø 40 mm.



Clestii HYPO sunt cu autoreglare, deci nu este necesar sa se regleze in avans deschiderea falcilor. Operare cu omana, autoajustabila



Meacnismul de blocare permite depozitarea facila a uneltei dupa folosire



447/4PHPP

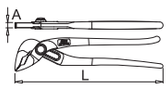
Cleste reglabil cu blocare pentru instalatori

- *material: crome vanadium*
- *tratat complet*
- *acoperire: fosfatare*
- *cap vopsit*
- *manere de plastic*

Avantaje:

- *dantura dintilor este conceputa pentru a asigura strangerea sigura a piesei*
- *deschiderea falcilor reglabila in 10 pozitii*
- *clestii HPP sunt prevazuti cu un buton pentru reglarea rapida a deschiderii falcilor, asigurand o rapida si precisa adaptare a acestora pe piesa*
- *strangere ferma: designul si forma falcilor asigura o mai buna strangere a piesei, avand ca rezultat stabilitate, siguranta si un randament mai bun.*
- *lucrul cu clestele: cu toata constructia supla a acestuia, falcile asigura lucrul cu o singura mana in locurile de lucru extrem de dificile*
- *confectionate din doua componente reducand alunecarea mainii in timpul lucrului si asigurand siguranta si eficienta a mainii in actionarea falcilor.*
- *ergonomie: manerele sunt proiectate pentru o adaptare perfecta a mainii si asigura o mai mare strangere si siguranta.*





UNIOR

	L	A					
620421	240	8.5	40	353	4B	1	**112,13**

442/1HYPO

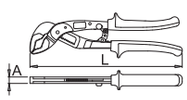
Cleste reglabil HYPO cu auto-reglare pentru instalatori

- *material: compozitie speciala pentru calire revenire*
- *suprafata de lucru tratata prin inductie*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *tratat complet*

Avantaje:

- *clestii HYPO sunt cu autoreglare, deci nu este necesar sa se reglezein avans deschiderea falcilor.*
- *operare cu o mana, autoajustabila*
- *clestele de adapteaza perfect la piesa de lucru*
- *deschiderea maxima a falcilor : Ø 40 mm.*
- *meacnismul de blocare permite depozitarea facila a uneltei dupa folosire*





UNIOR

	L	A					
616727	180	9.5	33	201	4B	10	**114,61**
611780	240	9	40	397	4B	10	**143,06**

442/1BIST

Set de clesti reglabili HYPO in display de carton



615185	6	2890	1F	1	**870,99**

442/1HYPO (240)

447/1

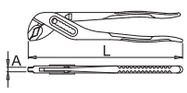
Cleste reglabil falci intrepatrunse pentru instalator

- *material: crome vanadium*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *finisare: cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul ISO 8976*

Avantaje:

- *forma speciala cu crestatura previne strivirea degetelor intre brate*
- *deschiderea falcii reglabila in 7 pozitii*





UNIOR

	L	A					
605237	240	6.5	35	307	4B	10	**82,02**

447/6

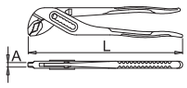
Cleste reglabil cu falci intrepatrunse, vopsit pentru instalatori

- *material: crome vanadium*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *vopsit rosu*
- *in conformitate cu standardul ISO 8976*

Avantaje:

- *deschiderea falcii reglabila in 7 pozitii*
- *forma speciala cu crestatura previne strivirea degetelor intre brate*

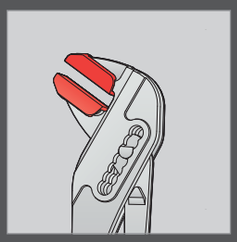




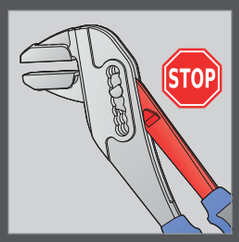
UNIOR

	L	A					
607348	175	6.5	26.5	154	4B	1	**56,77**
603160	240	7.5	35	312	4B	10	**75,79**
605006	300	8.5	42	464	4B	10	**107,31**

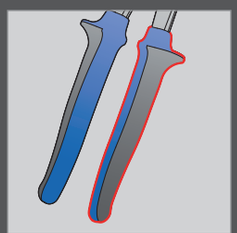
449/1PYTHON



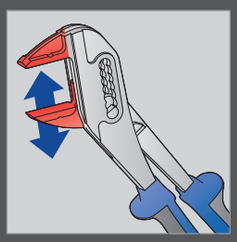
449.1 Falci suplimentare din plastic pentru lucrul pe suprafete cromate si polizate



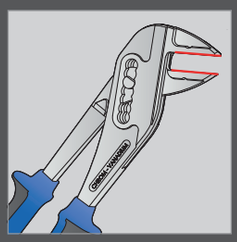
forma speciala cu crestatura previne strivirea degetelor intre brate



manere bimaterial pentru conditii grele



deschiderea falcii reglabila in 7 pozitii



falcile sunt intotdeauna paralele pentru protectia piesei asupra careia se actioneaza impotriva deteriorarii

447/1BI

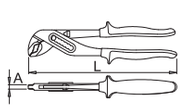
Cleste reglabil cu falci intrepatrunse pentru instalatori

- *material: crom vanadium*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 8976*

Avantaje:

- *forma speciala cu crestatura previne strivirea degetelor intre brate*
- *deschiderea falcii reglabila in 7 pozitii*





UNIOR

	L	A					
610984	240	6.5	35	367	4B	1	**99,04**

449/1PYTHON

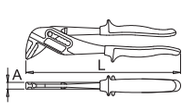
Cleste reglabil cu falci intrepatrunse PYTHON pentru instalatori

- *material: crom vanadium*
- *tratat complet*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*

Avantaje:

- *deschiderea falcii reglabila in 7 pozitii*
- *falcile sunt intotdeauna paralele pentru protectia piesei asupra careia se actioneaza impotriva deteriorarii*
- *449.1falci suplimentare din plastic pentru lucrul pe suprafete cromate si polizate*





UNIOR

	L	A					
615032	240	11	42	420	4B	10	**161,55**
616725	300	15	63	709	4B	5	**194,58**

449.1

Falca de protectie din plastic pentru 449/1PYTHON



UNIOR

615033	240	2	10	1E	2	**8,27**
616726	300	2	12	1E	2	**8,27**

449/1BIST

Set de clesti reglabili PYTHON in display de carton



UNIOR

615182	6	3000	1F	1	**983,65**

449/1PYTHON (240)

441/7PR

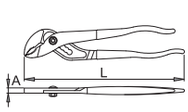
Cleste reglabil pentru instalatori

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *maner profilat ergonomic*
- *manere de plastic*
- *in conformitate cu standardul ISO 8976*

Avantaje:

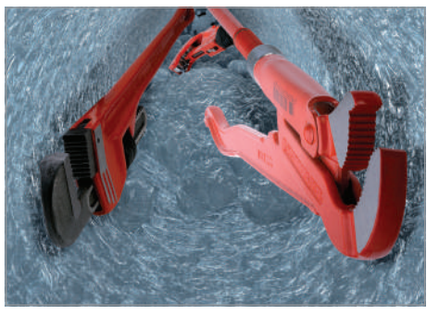
- *deschiderea falcii reglabila in 6 pozitii*
- *articulatie culisanta*





UNIOR

	L	A					
601464	240	8	35	337	4B	10	**51,95**



480/6

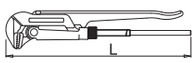
Clesti de tevi cu gura la 90° model suedez

- *material: crom vanadiu*
- *tratat complet*
- *vopsit rosu*
- *falci danturate tratate prin inductie*
- *in conformitate cu standardul DIN 5234 forma A*

Utilizare

- *strangerea, rotirea sau ancorarea suruburilor, piulitelor si flanselor*





UNIOR

601481	1	50	325	692	1D	1	124,63
601482	1.1/2"	60	415	1200	1D	1	166,80
601483	2	80	540	2050	1D	1	274,94
601484	3	105	685	3430	1D	1	450,06
605125	4	125	750	4920	1D	1	653,69

481/6

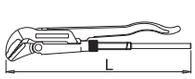
Clesti de tevi cu gura la 45° model suedez

- *material: crom vanadiu*
- *tratat complet*
- *vopsit rosu*
- *falci danturate tratate prin inductie*
- *in conformitate cu standardul DIN 5234 forma B*

Utilizare

- *strangerea, rotirea sau ancorarea suruburilor, piulitelor si flanselor*



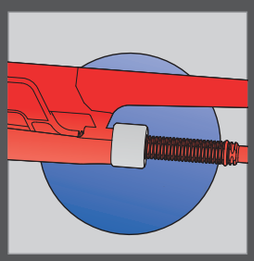


UNIOR

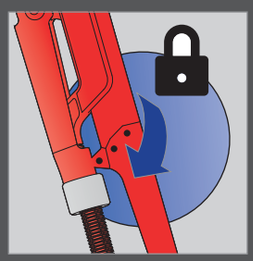
601495	1/2"	35	265	480	1D	1	109,50
601496	1	45	335	815	1D	1	133,04
601497	1.1/2"	55	430	1380	1D	1	173,37
601498	2	70	555	2330	1D	1	287,83
601499	3	95	700	4300	1D	1	499,78

CARACTERISTICI

483/6, 483/6A



reglati lungimea de strangere prin actionarea piulitei de reglaj de pe maner



cu o forta minina pe levierul de pe maner se va obtine o forta mare de blocare si clestele va ramane blocat pe piesa



482/6

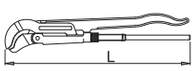
Cleste de tevi cu gura la 45°, model suedez, forma-S

- *material: crom vanadiu*
- *tratat complet*
- *vopsit rosu*
- *falci danturate tratate prin inductie*
- *falcile asigura o blocare buna a suprafetelor plate semirotunde si rotunde*
- *in conformitate cu standardul DIN 5234 forma C*

Utilizare

- *strangerea, rotirea sau ancorarea suruburilor, piulitelor si flanselor*





UNIOR

601510	1/2"	35	270	475	1D	1	112,27
601511	1	50	335	800	1D	1	134,31
601512	1.1/2"	60	430	1350	1D	1	177,31
601513	2	80	550	2360	1D	1	293,09
601514	3	105	700	4370	1D	1	524,25





483/6

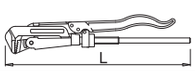
Cleste pentru tevi cu blocare

- *material: crom vanadiu*
- *tratat complet*
- *vopsit rosu*
- *falci danturate tratate prin inductie*

Utilizare

- *strangerea, rotirea sau ancorarea suruburilor, piulitelor si flanselor*
- *reglati lungimea de strangere prin actionarea piulitei de reglaj de pe maner*
- *cu o forta minina pe levierul de pe maner se va obtine o forta mare de blocare si clestele va ramane blocat pe piesa*
- *pentru deblocarea clestelui eliberati levierul de pe maner*





UNIOR

611781	1.1/2"	50	418	1450	1D	1	211,95
613076	2	70	490	2040	1D	1	340,27



483/6A

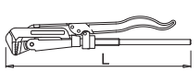
Cleste pentru tevi cu blocare cu falci netede

- *material: crom vanadiu*
- *tratat complet*
- *vopsit rosu*

Utilizare

- *strangerea, rotirea sau ancorarea suruburilor, piulitelor si flanselor*
- *strangere precisa a piulitelor si a fitingurilor in deplina siguranta*
- *reglati lungimea de strangere prin actionarea piulitei de reglaj de pe maner*
- *cu o forta minina pe levierul de pe maner se va obtine o forta mare de blocare si clestele va ramane blocat pe piesa*
- *pentru deblocarea clestelui eliberati levierul de pe maner*





UNIOR

612668	1.1/2"	50	418	1470	1D	1	**211,95**
612903	2	70	490	2000	1D	1	**340,27**

400

Set de clesti instalatori si reglabili in cutie de carton



UNIOR

612599	3	2715	1F	1	**387,02**

482/6 (1, 1.1/2"), **447/6** (240)

492/6

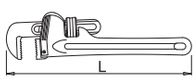
Cleste industrial pentru tevi

- *material: maner din aliaj special, foarte rezistent*
- *falci tratate, dintii tratati suplimentar prin inductie*
- *falci intershimbabile, fosfatate*
- *falca superioara reglabila*
- *maner vopsit*
- *falci si suruburi ca parti de schimb pentru art.492, 490 si 492L*

Utilizare

- *strangerea, rotirea sau ancorarea suruburilor, piulitelor si flanselor*





UNIOR

	L"			L				
601544	8	1"	34	200	375	1D	1	**62,70**
601545	10	1.1/2"	49	250	760	1D	1	**86,39**
618893	12	1.3/4"	55	300	1100	1D	1	**96,37**
601546	14	2"	60	350	1520	1D	1	**103,71**
601547	18	2.1/2"	76	450	2360	1D	1	**144,62**
601548	24	3"	89	600	3700	1D	1	**229,60**
601549	36	5"	140	900	7800	1D	1	**580,77**
618894	48	6"	165	1200	11200	1D	1	**680,30**

492.1/7

Set parti componente pentru art. 492 si 490

- *parti componente pentru clesti Stilson*



UNIOR

602340	8	151	1E	1	**46,60**
602332	10	286	1E	1	**69,51**
620064	12	418	1E	1	**75,84**
602691	14	532	1E	1	**81,82**
602695	18	856	1E	1	**103,76**
602699	24	1204	1E	1	**177,85**
602703	36	2260	1E	1	**318,19**
620065	48	4025	1E	1	**398,79**



492AL

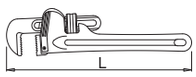
Cleste industrial pentru tevi din aluminiu

- *material: maner din aliaj de Aluminiu, foarte rezistent*
- *falci tratate, dintii tratati suplimentar prin inductie*
- *falci intershimbabile, fosfatate*
- *falca superioara reglabila*
- *falci si suruburi ca parti de schimb pentru art.492, 490 si 492L*

Utilizare

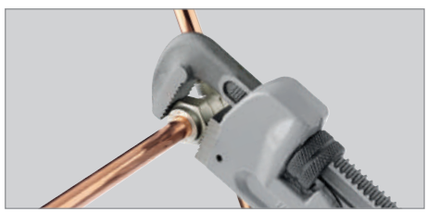
- *strangerea, rotirea sau ancorarea suruburilor, piulitelor si flanselor*





UNIOR

	L"			L				
602719	14	2"	60	330	960	1D	1	**167,39**
602720	18	2.1/2"	76	410	1560	1D	1	**246,97**
602721	24	3"	89	555	2450	1D	1	**334,29**
602722	36	5"	140	790	4600	1D	1	**676,51**



494/6

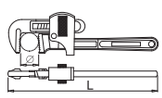
Cleste reglabil pentru tevi

- *manerul forjat din otel special*
- *falcile confectionate di otel special aliat*
- *suprafata de lucru tratata prin inductie*
- *dintii ascutiti*
- *vopsite*

Utilizare

- *strangerea, rotirea sau ancorarea suruburilor,piulitelor si flanselor*





UNIOR

	L"			L				
619786	8	3/4"	27	200	280	1D	1	**61,15**
619787	10	1"	35	250	580	1D	1	**82,45**
619788	12	1.1/4"	43	300	780	1D	1	**93,98**
619789	14	1.1/2"	50	350	1050	1D	1	**102,25**
619790	18	2"	60	450	1808	1D	1	**142,53**
619791	24	2.1/2"	76	600	3250	1D	1	**223,86**
619792	36	3.1/2"	100	900	6300	1D	1	**572,50**

494.1/7

Set piese de rezerva pentru art. 494/6



UNIOR

	L"	L				
620592	8	200	100	1E	1	19,75
620593	10	250	215	1E	1	26,22
620594	12	300	302	1E	1	31,23
620595	14	350	389	1E	1	36,29
620596	18	450	577	1E	1	47,38
620597	24	600	1131	1E	1	74,38
620598	36	900	1988	1E	1	121,95

487/2P

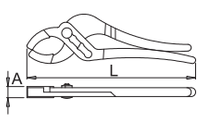
Cleste pentru sifon de scurgere

- *material: crom vanadium*
- *tratat complet*
- *finisare: cromat in conformitate cu standardul EN12540*
- *falci suplimentare de plastic pentru lucrul cu materiale moi*



UNIOR





	L		A				
612869	235	18 - 67	14.5	315	1E	10	115,92

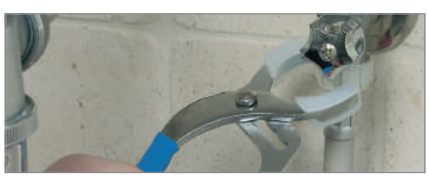
487.1

Falca de plastic pentru 487/2P



UNIOR

619882	2	12	1E	1	8,56



352.2

Adaptor pentru indoit



UNIOR

621535	10	73	1E	1	28,85
621536	12	97	1E	1	32,11
621537	14	139	1E	1	35,41
621538	15	134	1E	1	35,41
621539	16	128	1E	1	35,41
621540	18	241	1E	1	44,22
621541	20	219	1E	1	44,22
621542	22	272	1E	1	51,47
621543	3/8"	72	1E	1	28,85
621544	1/2"	93	1E	1	32,11
621545	5/8"	128	1E	1	44,22
621546	3/4"	229	1E	1	44,22
621547	7/8"	271	1E	1	51,47

352/6PB

Set de indoit tevi

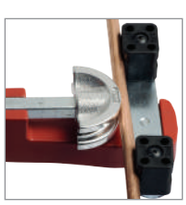
- *Dimensiunea cutiei : 393 x 331 x 95*

Utilizare

- *pentru indoirea tevilor de cupru, alama, aluminiu si tevi din otel cu pereti sudati pana la 90 grade*









UNIOR

621533	10 - 22 / 11	4060	1G	1	1218,65

352.1/6, 352.2 (10, 12, 14, 15, 16, 18, 20, 22), 352.3 (10, 12 - 22)

352.1/6

Dispozitiv de indoit tevi

- *carcasa din aliaj special de mare durabilitate*
- *mecanism de indoire in trepte*
- *sistem de eliberare rapida*



UNIOR

621534	1140	1E	1	414,36

355/6

Scula de evazat tevi

- *corpul forjat din otel de scule, vopsit*
- *corpul forjat din otel de scule, partea de evazare din otel de scule, falcile de strangere din otel de scule*
- *falci nichelate, protectie anticoroziva*
- *cod **601100** pentru evazarea tevilor de 4.75, 5, 6, 8, 10, 12, 14 mm*
- *cod **618465** pentru evazarea tevilor de 10, 12, 14, 16, 18, 20, 22 mm*
- *cod **620112** pentru evazarea tevilor de 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8"*

Utilizare

- *pentru realizarea diferitelor adaptari ale tevilor de cupru; este posibila evazarea la 45º sau 90º.*
- *pentru 90º - prima utilizare 45º.*



UNIOR

601100	4.75 - 14	1100	1F	1	379,24

352.3

Scula de indoit



UNIOR

621549	10	251	1E	1	88,39
621548	12 - 22	450	1E	1	132,22

358/6

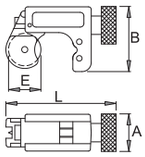
Dispozitiv de taiat teava

- *material: aliaj de aluminiu*
- *pentru cupru, alama, aluminiu si tevi din otel cu pereti sudati*
- *model nou-pentru tevi cu raze mici*
- *piese de schimb: role de taiere si rola port cutit*



UNIOR





		B	A	E	L				
601101	3 - 16	36.5	20.5	18	50	115	1E	1	**79,53**

358.1/7

Role de taiere pentru art. 358



UNIOR

601102	11	1E	10	**12,65**

360/6

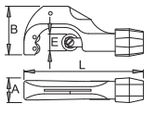
Dispozitiv de taiat teava

- *role de taiere si bucsi din otel special,tratate termic*
- *carcasa vopsita*
- *maner de schimb*
- *parti ce se pot inlocui: role de taiere si role port cutit*



UNIOR





		B	E	A	L				
601104	3 - 32	55	19	28	135	340	1E	1	**259,42**
602080	6 - 67	94	18	38	287	1020	1E	1	**434,98**

358.2/5

Role de schimb pentru art. 358



UNIOR

601103	9	1E	10	**14,69**

361/6

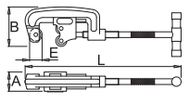
Dispozitiv de taiat teava

- *carcasa vopsita*
- *role tratate in ulei*



UNIOR





		B	A	E	L				
601108	1/8"-2"	106.5	48.5	32	455	2156	1C	1	**455,95**

360.1/7

Role taietoare de schimb pentru art. 360



UNIOR

621249	6 - 67	11	1E	1	**16,54**
601105	3 - 32	9	1E	1	**15,13**

360.2/5

Role de schimb pentru 360



UNIOR

601106	3 - 32	24	1E	10	**20,97**
616498	6 - 67	100	1E	10	**22,13**

361.1/7

Role taiere de schimb pentru art. 361



UNIOR

601109	1/8" - 2"	35	1E	10	**59,49**

361.2/7

Role de schimb pentru art. 361



UNIOR

601111	1/8" - 2"	85	1E	10	**55,75**

370

Trusa de cleste de taiat tevi si de bercuit

- *Dimensiunea cutiei : 307 x 260 x 70 mm*



UNIOR

601099	3	1980	1F	1	**847,10**

355/6, **360/6** (3 - 32), **363** (4 - 36)



BC-HK

Maner pentru suport lame de debavurare

• *pentru suporturi tip BC-TKB si BC-TKE*



	Amb	
16500300001	1	65,18

BC-HE

Maner universal pentru lame de debavurare

• *pentru toate tipurile de lame BC E*



	Amb	
16500300002	1	68,11

BC-TKB

Suport pentru lame de debavurare

• *pentru toate tipurile de lame BC B*



	Amb	
16510300001	1	42,07

BC-TKE

Suport pentru lame de debavurare

• *pentru toate tipurile de lame BC E*



	Amb	
16510300002	1	42,07

BC-B10

Lama HSS forma B10 pentru debavurare

• *lama HSS pentru otel, aluminiu si plastic*
• *pretul de mai jos reprezinta pretul pentru o lama*



	Amb	
16590300010	1	9,40

BC-B20

Lama HSS forma B20 pentru debavurare

• *lama HSS pentru debavurare alama si fonta*
• *pentru utilizare in doua directii*
• *pretul de mai jos reprezinta pretul pentru o lama*



	Amb	
16590300020	1	9,40

BC-E100

Lama HSS forma E100 pentru debavurare

• *lama cu coada lunga pentru otel, aluminiu si plastic*
• *pretul de mai jos reprezinta pretul pentru o lama*



	Amb	
16600300100	1	9,71

BC-E200

Lama HSS forma E200 pentru debavurare

• *lama HSS cu coada lunga pentru debavurare alama si fonta*
• *pentru utilizare in doua directii*
• *pretul de mai jos reprezinta pretul pentru o lama*



	Amb	
16600300200	1	9,71

BC-E300

Lama HSS forma E300 pentru debavurare

• *lama HSS cu coada lunga, pentru indepartarea simultana a bavurilor interioare si exterioare din gauri in tabla si tevi*
• *pretul de mai jos reprezinta pretul pentru o lama*



	Amb	
16600300300	1	12,64

Tip	Articol			METAL	ALU	CUPRU	ALAMA	FONTA	Plastice PVC
BC-E100	1660 03 00100		10	●	●	●			●
BC-E200	1660 03 00200		10				●	●	●
BC-E300	1660 03 00300		10	●	●	●			●
BC-E350	1660 03 00350		10				●	●	
BC-E600	1660 03 00600		5	●	●	●			●

BC-E350

Lama HSS forma E350 pentru debavurare

- *lama HSS cu coada lunga, pentru debavurarea muchiilor drepte, canelurilor etc.*
- *pretul de mai jos reprezinta pretul pentru o lama*



	Amb	
16600300350	1	9,71

BC-DS3

Razuitor triunghiular cu lama fixa

- *lama fixa HSS 3,0 mm*



	Amb	
16560300001	1	54,86

BC-DS8

Razuitor triunghiular cu lama interschimbabila

- *lama interschimbabila HSS 8,0 mm (BC-C42)*



	Amb	
16560300002	1	90,61

BC-C42

Lama de schimb pentru razuitor triunghiular

- *lama interschimbabila HSS 8,0 mm pentru razuitorul triunghiular cu lama interschimbabila BC-DS8*



	Amb	
16610300001	1	74,74

BC-HE1

Debavurator complet cu o lama HSS BC-E100

- *lama HSS (BC-E100) cu coada lunga pentru otel, aluminiu si plastic*



	Amb	
16520300001	1	85,22

BC-HE3

Debavurator complet cu 3 lame HSS BC-E100 / BC-E200 / BC-E350

- *lama HSS (BC-E100) cu coada lunga pentru otel, aluminiu si plastic*
- *lama HSS (BC-E200) cu coada lunga pentru debavurare alama si fonta*
- *lama HSS (BC-E350) cu coada lunga, pentru debavurarea muchiilor drepte, canelurilor etc.*



	Amb	
16520300002	1	109,41

BC-E600

Lama HSS forma E600 pentru debavurare

- *lama HSS cu coada lunga, pentru debavurarea gaurilor transversale*
- *pretul de mai jos reprezinta pretul pentru o lama*



	Amb	
16600300600	1	29,28

BC-HTB4

Maner complet cu 2 lame HSS BC-B10 / BC-B20

- *lama HSS (BC-B10) pentru otel, aluminiu si plastic*
- *lama HSS (BC-B20) pentru debavurare alama si fonta*



	Amb	
16520300003	1	115,88

BC-1-10

Debavurator rapid cu lama fixa

- *lama HSS (BC-E100) cu coada lunga pentru otel, aluminiu si plastic*



	Amb	
16530300001	1	28,51

BC-2-5

Debavurator rapid cu lama interschimbabila

- *lama HSS (BC-E100) cu coada lunga pentru otel, aluminiu si plastic*



	Amb	
16540300001	1	45,15

BC-DE

Debavurator dublu cu doua lame HSS rotunde

- *lama rotunda HSS (2 bucati)*



	Amb	
16550300001	1	177,52

BC-R12

Lama HSS rotunda

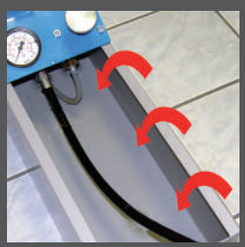
- *lama rezerva pentru debavurator dublu cu doua lame HSS rotunde (BC-DE)*
- *pretul de mai jos reprezinta pretul pentru o lama*

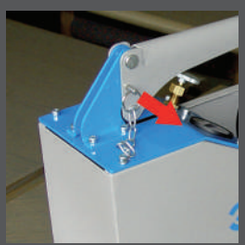


	Amb	
16550300002	1	34,06

MOD DE UTILIZARE


Inchide valva


Pentru apa


Scoate pinul de blocaj


Conecteaza furtunul de iesire

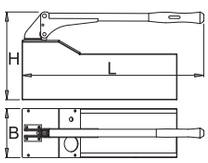

Incepeti pomparea

375/6

Pompa de testare

- *este utilizata pentru testarea presiunii si scurgerilor de apa in instalatiile de incalzire ce lucreaza sub presiune*
- *capacitatea maxima - 12 litri*
- *confectionata din material anticoroziv*





UNIOR

	L	B	H				
602600	605	160	286.5	8800	1C	1	**1951,73**

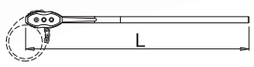


484/6

Clesti cu lant

- *material: otel carbon*
- *falci forjate*
- *falci cu nervuri cu dantura tratata prin inductie*
- *falca rotitoare*
- *maner vopsit, celelalte parti tratate anti-coroziune*





UNIOR

			L				
601530	4	160	760	6735	1C	5	**845,64**
601531	6	200	915	9238	1C	5	**1309,86**
601532	8	300	1130	13000	1C	5	**1883,92**
601533	12	400	1250	18000	1C	5	**2452,39**

484.1/7

Lant pentru art. 484



UNIOR

		L				
602707	4	626	1435	1F	1	**585,88**
602710	6	829	1975	1F	1	**679,62**
602713	8	1038	2500	1F	1	**1075,88**
602716	12	1414	3000	1F	1	**1631,26**

484.2/7

Falca pentru art. 484



UNIOR

602708	4	775	1F	1	**502,02**
602711	6	2160	1F	1	**527,02**
602714	8	3625	1F	1	**656,56**
602717	12	5161	1F	1	**761,29**

484.3/7

Surub de schimb pentru art. 484



UNIOR

602709	4	124	1E	10	**34,39**
602712	6	129	1E	10	**45,05**
602715	8	198	1E	10	**56,33**
602718	12	300	1E	10	**83,28**



726/6

Menghina pentru tevi

- *carcasa din aliaj special de mare durabilitate*
- *bacuri forjate din otel, calite si revenite*
- *carcasa vopsita,bacuri protejate anti-coroziune,celelalte parti zincate*
- *poate fi montata pe trepiedul nostru portabil*



UNIOR

619613	1/8" - 2"	70	4570	1F	1	**701,31**
619614	1/8" - 3"	100	6400	1F	1	**805,03**

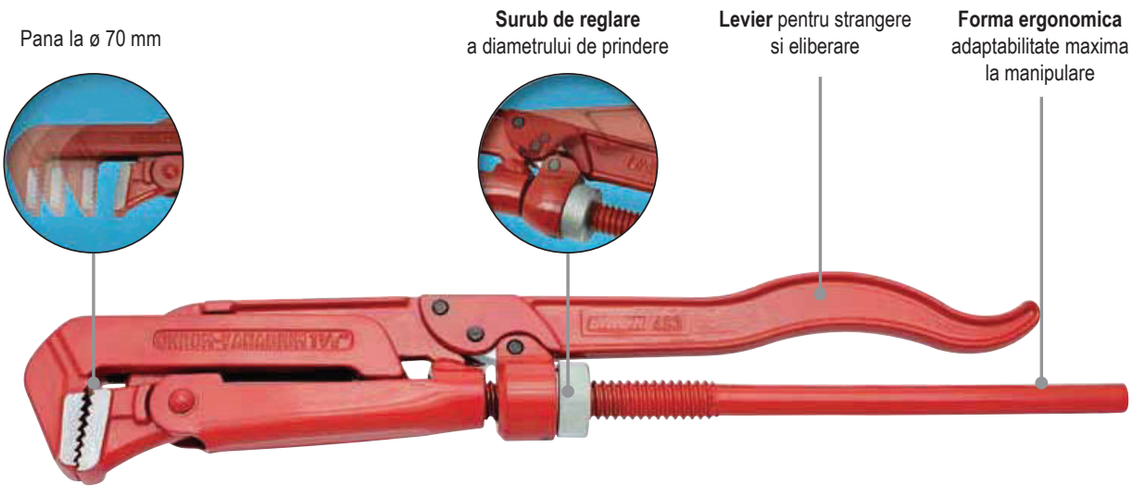
483/6 CLESTE PENTRU TEVI CU BLOCARE

Prindere continua



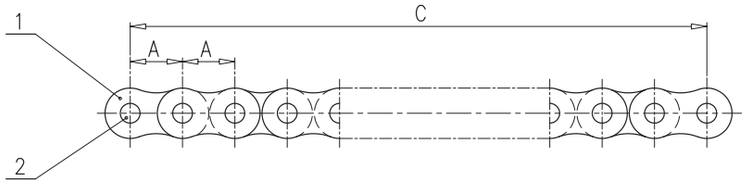
- material: crom vanadiu
- tratat complet
- vopsit rosu
- falci danturate tratate prin inductie

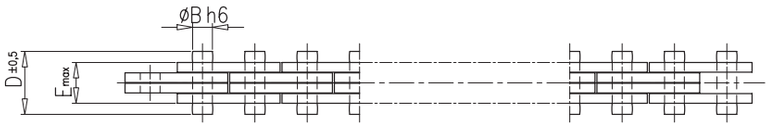
Dim.		max
418	1.1/2"	50
490	2	70

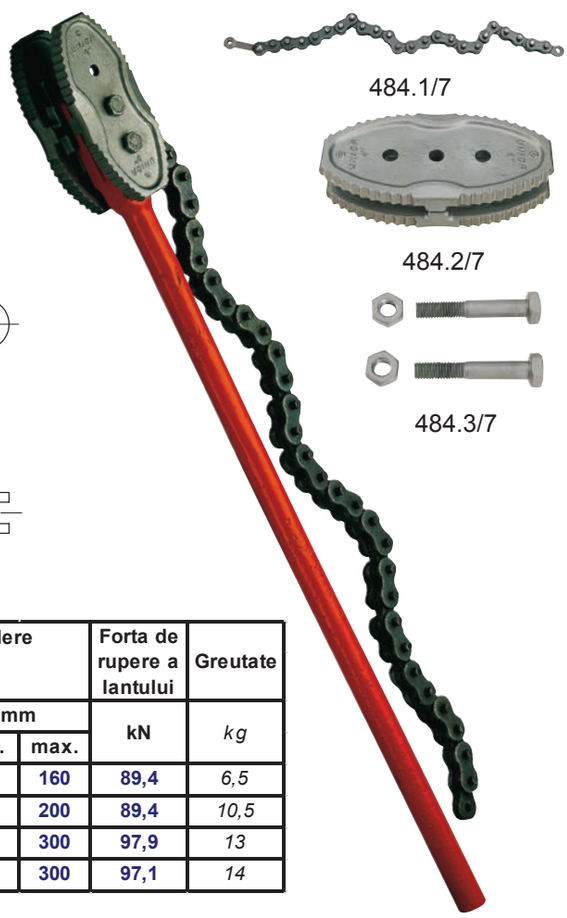


484/6 CLESTE CU LANT

- material: otel carbon de scule
- falci forjate
- falci cu nervuri cu dantura tratata prin inductie, 48-52 HRC
- falca rotitoare
- maner vopsit, celelalte parti tratate anti-coroziune







Dimen-siunea	Lungimea (mm)		A	B	C	D	E max	Intervalul de prindere exterior				Forta de rupere a lantului	Greutate
								inch		mm			
	Cheie	Lant	mm	mm	mm	mm	mm	min.	max.	min.	max.	kN	*kg*
4”	760	626	25,4	9	634	31,8	21,0	1	6 3/8	25	160	89,4	*6,5*
6”	915	829	25,4	9	811	31,8	21,0	1 3/8	7 3/4	35	200	89,4	*10,5*
8”	1130	1038	27,0	10	1078	32,5	21,0	2	11 3/4	50	300	97,9	*13*
12”	1250	1414	31,4	10	1365	44,7	25,1	2	11 3/4	50	300	97,1	*14*



STAHLWILLE
Chei dinamometrice si acesorii, scule auto



SAM OUTILLAGE
Chei dinamometrice, scule auo



EGAMASTER
Scule speciale pentru instalatori



ZBIROVIA
Clesti speciali





Gama larga de accesorii datorita sistemului de prindere.



Reglare rapida din exterior. Nu este necesara demontarea cheii.



Reglare rapida QuickSelect: trage, regleaza, blocheaza. Toate aplicatiile cu un singur buton

730N

Cheie dinamometrica cu capete interschimbabile MANOSKOP®

- *dreptunghi de antrenare 9x12 mm sau 14x18 mm*
- *capetele interschimbabile (usor ajustabile, nu necesita dezasamblarea dispozitivului) pot si folosite si la aplicarea cuplului de forta in sens antiorar*
- *cheie electronica cu capete intershimbabile cu masurare rapida, presetare exacta datorita optiunii de selectare rapida (QuikSelect)*
- *semnal de oprire prin dubla avertizare sonora*
- *scala dubla cu marcaje colorate diferit pentru N m/ft.lb si ft.lb/inch.lb.*
- *se livreaza cu certificat de verificare emis de producator*
- *precizie de masurare ±3%*



	Dimensiune		Antrenare	Lungime	
SW 50181002	2,0-20 Nm	20-180 in.lb	9x12	275	**1949,34**
SW 50181005	10-50 Nm	7-37 ft.lb	9x12	330	**2057,21**
SW 50181010	20-100 Nm	15-75 ft.lb	9x12	386	**2242,13**
SW 50181012	25-130 Nm	20-95 ft.lb	14x18	421	**2350,00**
SW 50181020	40-200 Nm	30-150 ft.lb	14x18	467	**2558,03**
SW 50181040	80-400 Nm	60-300 ft.lb	14x18	607	**3829,34**
SW 50181065	130-650 Nm	100-480 ft.lb	14x18	890	**5778,69**

50180002

Cheia dinamometrica cu cap de antrenare interschimbabil MANOSKOP®

- *precizie de masurare ±4%*
- *VW/Audi*



	Dimensiune	Citire	Antrenare	Lungime	
SW 50180002	4-20 Nm	0,5 Nm	9x12	178,5	**1663,39**

730

Cheia dinamometrica cu cap de antrenare interschimbabil MANOSKOP®

- *precizie de masurare ±4%*



	Dimensiune		Antrenare	Lungime	
SW 50180012	25-130 Nm	20-95 ft.lb	14x18	410	**1867,67**
SW 50180040	80-400 Nm	60-300 ft.lb	14x18	570	**2963,75**
SW 50180065	130-650 Nm	100-480 ft.lb	14x18	855	**4398,75**

775/30N/2

Set surubelnita dinamometrica TORSIOMAX

- *se utilizeaza la placile electronice de Airbus A320- A340*
- *precizie de masurare ±6%*



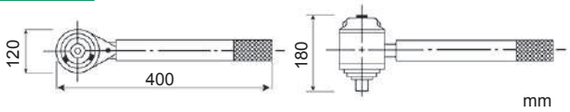
	Dimensiune	Citire	Antrenare	Lungime	
SW 96510502	40-300 cNm	1 cNm	HEX 6,3	160	**2645,87**

MP3000

Multiplicator de cuplu MULTIPOWER

- *protectie la suprasarcina*
- *geanta de transport*
- *precizie ± 5%*





	Nm¹)	ft.lb¹)	Nm²)	ft.lb²)	Rata	□	■	
SW 53035000	5000	3687	294	217	1 : 17.0	3/4"	1.1/2"	**33601,15**

¹) Capacitate maxima intrare ²) Capacitate maxima iesire

725/4

Cap antrenare pentru cheia dinamometrica MANOSKOP® cu cap de antrenare interschimbabil 9x12 mm 3/8"

9x12

- *pentru VW/Audi*



	Dimensiune	Lungime	Latime	Inaltime	
SW 58240005	3/8"	20	17,5	14	**239,62**

735/5

Cap antrenor clichet reversibil pentru cheie dinamometrica 9x12 mm 3/8"

9x12

• *reversibil, 60 dinti*



	Dimensiune	Lungime	Latime	Inaltime	
SW 58250005	3/8"	50	33	35	**574,02**

735/40

Cap antrenor clichet reversibil pentru cheie dinamometrica 14x18 mm 3/4"

14x18

• *reversibil, 60 dinti*



	Dimensiune	Lungime	Latime	Inaltime	
SW 58250040	3/4"	75	50	55	**893,77**

7370/10

Adaptor cheie dinamometrica cu capete interschimbabile de la 9x12 la 14x18 mm

9x12
14x18



	Dimensiune	Lungime	Latime	Inaltime	
SW 58290010	9x12/14x18	31	30.5	26	**396,80**

725/4

Cap antrenor clichet reversibil pentru cheie dinamometrica 9x12 mm 1/4"

9x12

• *reversibil, 22 dinti*



	Dimensiune	Lungime	Latime	Inaltime	
SW 58254004	1/4"	59	22	19	**516,23**

735/20

Cap antrenor clichet reversibil pentru cheie dinamometrica 14x18 mm 1/2"

14x18

• *reversibil, 60 dinti*



	Dimensiune	Lungime	Latime	Inaltime	
SW 58250020	1/2"	72	43	42	**608,69**

7370/40

Adaptor cheie dinamometrica cu capete interschimbabile de la 14x18 la 9x12 mm

14x18
9x12

• *Atentie: modifica setarile cheii dinamometrice!*



	Dimensiune	Lungime	Latime	Inaltime	
SW 58290040	14x18/9x12	60	45	23	**635,66**

732/10

Cap cheie inelara interschimbabil pentru cheie dinamometrice 9x12 mm

9x12



	Dimensiune	Lungime	Latime	Inaltime	
SW 58221007	7	13	17,5	8	**258,89**
SW 58221008	8	14,2	17,5	8	**251,95**
SW 58221010	10	17,2	17,5	9	**252,72**
SW 58221011	11	18,5	17,5	9	**258,89**
SW 58221012	12	20,5	17,5	11	**258,89**
SW 58221013	13	21,5	17,5	11	**252,72**
SW 58221014	14	22,5	17,5	11	**258,89**
SW 58221015	15	24,5	17,5	12	**251,95**
SW 58221016	16	26	17,5	12	**252,72**
SW 58221017	17	27	17,5	13	**252,72**
SW 58221019	19	30,5	17,5	13	**252,72**
SW 58221022	22	34,5	17,5	15	**252,72**

732A/10

Cap cheie inelara interschimbabil pentru cheie dinamometrica 9x12 mm

9x12



	Dimensiune	Lungime	Latime	Inaltime	
SW 58621016	1/4"	39	22	14	**257,34**
SW 58621020	5/16"	41	22	14	**257,34**
SW 58621024	3/8"	41	23	14	**257,34**
SW 58621028	7/16"	43	19	14	**257,34**
SW 58621032	1/2"	45	23	15	**257,34**
SW 58621034	9/16"	45	23	15	**257,34**
SW 58621036	5/8"	46	26	14	**257,34**
SW 58621038	11/16"	48	28	14	**257,34**
SW 58621040	3/4"	50	31	15	**257,34**
SW 58621042	13/16"	50	33	15	**270,44**
SW 58621044	7/8"	51	35	15	**270,44**



731/10

Cap cheie fixa interschimbabil pentru cheie dinamometrica 9x12 mm

9x12



	Dimensiune	Lungime	Latime	Inaltime	
SW 58211008	8	38	23	15	251,18
SW 58211010	10	40	26	15	234,23
SW 58211011	11	40	26	14	248,10
SW 58211012	12	41	31	15	261,20
SW 58211013	13	41	30	15	234,23
SW 58211014	14	41	34	15	234,23
SW 58211015	15	40	34	15	251,18
SW 58211016	16	43	38	15	234,23
SW 58211018	18	46	42	15	241,93

731/40

Cap cheie fixa interschimbabil pentru cheie dinamometrica 14x18 mm

14x18



	Dimensiune	Lungime	Latime	Inaltime	
SW 58214017	17	58	37	22	265,05
SW 58214018	18	60	41	22	276,61
SW 58214019	19	58	41	22	265,05
SW 58214021	21	62	51	22	327,46
SW 58214022	22	61	50	22	322,07
SW 58214024	24	62	51	22	322,07
SW 58214027	27	68	59	22	322,07
SW 58214030	30	69	74	22	359,82
SW 58214032	32	68	64	22	359,82
SW 58214036	36	71	73	21	404,51
SW 58214038	38	70	73	21	416,07
SW 58214041	41	75	81	22	404,51

732/40

Cap cheie inelara interschimbabil pentru cheie dinamometrice 14x18 mm

14x18



	Dimensiune	Lungime	Latime	Inaltime	
SW 58224013	13	22,5	25	11	272,75
SW 58224014	14	23	25	11	272,75
SW 58224015	15	24	25	11	278,92
SW 58224016	16	25,5	25	12	272,75
SW 58224017	17	27	25	12	272,75
SW 58224018	18	29	25	13	272,75
SW 58224019	19	30,5	25	13	272,75
SW 58224021	21	33	25	15	325,15
SW 58224022	22	34,5	25	15	325,15
SW 58224024	24	37,5	25	15	325,15
SW 58224027	27	42,5	25	17	325,15
SW 58224028	28	45,5	25	19	392,95
SW 58224030	30	46	25	19	367,52
SW 58224032	32	47,5	25	19	367,52
SW 58224034	34	52	28*	19	404,51
SW 58224036	36	54	28*	19	404,51
SW 58224041	41	60	30*	20	404,51

7380N/ 7385N

Dispozitiv de strangere unghiulara 1/2"

1/2"

- *permite strangerea surubului cu un anumit numar de grade dupa ce a fost strans la cuplul prestabilit*
- *calibrata in grade cu cifre mari, usor de citit*
- *patrat de antrenare de 1/2"*



	Dimensiune	Ambalare	
SW 54010001	360°	1	947,70

59X

Cap cheie tubulara cu profil XZN® 3/4"

3/4"

- *material: crom vanadiu*
- *acoperire: cromare*



	Dimensiune	Ambalare	
SW 05060016	M 16	1	288,16
SW 05060018	M 18	1	324,38

10905

Suport pentru pile silex



	Dimensiune	Ambalare	
SW 72160000	365 mm	1	747,38

Pila silex pentru caroserie

- *se utilizeaza impreuna cu suportul 10905*



	Dimensiune	Ambalare	
SW 79060002	350 mm (12 t.p.i/radial)	1	330,54
SW 79060003	350 mm (9 t.p.i./radial)	1	305,89
SW 79060012	350 mm (12 t.p.i/unghiular)	1	281,23
SW 79060013	350 mm (9 t.p.i./unghiular)	1	265,82

10900

Nicovala curbata cu protectie din piele

- *pentru coarda de pian si otel special*
- *DIN ISO 5748*



	Dimensiune	Ambalare	
SW 70220005	400 mm	1	276,61

12920

Oglinda de inspectie telescopica rotunda



	Dimensiune	Lungime	
SW 77401030	Φ 30 mm	265-705	250,41
SW 77401040	Φ 40 mm	275-715	255,80
SW 77401050	Φ 50 mm	285-725	281,23
SW 77401060	Φ 60 mm	295-735	294,33

12921M

Oglinda de inspectie telescopica INOX

- *oglinzi incasabile din otel inox (DOM)*
- *fara imbinari filetate (DOM)*
- *rezistenta la rugine datorita bratulului telescpic din otel inoxidabil*
- *cap cu cardan (actiune 180°), auto-tensionare*
- *maner plastic special care asigura o prindere ferma si conditii de siguranta de lucru, rezistent la produse chimice*



	Dimensiune	Lungime	
SW 77401032	32 mm	171-699	213,43
SW 77401045	45x70 mm	178-927	222,67
SW 77401057	57 mm	178-921	213,43
SW 77402550	25x50 mm	178-914	213,43

12920

Oglinda de inspectie telescopica dreptrunghiulara

- *cu sectiunea bratului ovala impotriva rasucurii*



	Dimensiune	Lungime	
SW 77401001	65 x 43	310-750	294,33

6608

Cleste de forta cu tais lateral

- *pentru coarda de pian si otel special*
- *DIN ISO 5749*



	Dimensiune	Ambalare	
SW 66080225	225 mm	1	443,10

6617

Cleste de forta cu tais frontal

- *pentru coarda de pian si otel special*
- *DIN ISO 5748*



	Dimensiune	Ambalare	
SW 66170215	215 mm	1	504,67

6575

Cleste pentru infasurat sarma

- *pentru legarea cu sarma a elementelor de fixare din metal*
- *cu taietor lateral*
- *falci dintate pentru prindere ferma*
- *falci unghi de 40°*
- *potrivit pentru infasurarea sarmei de pana la diametru de 1,6 mm (0,06")*
- *pentru utilizare in sens orar si in sens antiorar*
- *cu actiune automata de revenire*
- *crom vanadiu*



	Dimensiune	Greutate	
SW 65751220	230 mm	330g	1163,44
SW 65751280	280 mm	440 g	1248,20

11069

Cleste pentru segmenti

- *pentru montarea si demontarea segmentilor*
- *acoperire: nichelare*



	Dimensiune	Ambalare	
SW 74152001	50-100 mm	1	230,38
SW 74152002	80-120 mm	1	246,56
SW 74152003	110-160 mm	1	282,77
SW 74152004	30-60 mm	1	267,01
SW 74152005	60-160 mm	1	297,41

10599/2

Cleste pentru echilibrat roti

- *material: crom-vanadiu*
- *acoperire: cromare*



	Dimensiune	Ambalare	
SW 76294003	245 mm	1	462,30

12771

Cleste extractor dopuri plastic

- *material falci: tabla otel calit*



	Dimensiune	Ambalare	
SW 76480001	230 mm	1	291,25

501

Coarba 1/2"

• raza de lucru 105 mm
• DIN 3122/ISO 3315

1/2"



	Dimensiune	Ambalare	
SW 13100010	456 mm	1	327,46

109

Punctator cu ghidaj



	Dimensiune	Ambalare	
SW 70090001	0,9 mm	1	76,66
SW 70090002	1,4 mm	1	77,05
SW 70090003	1,8 mm	1	73,58
SW 70090004	2,4 mm	1	73,58
SW 70090005	2,8 mm	1	73,58
SW 70090006	3,4 mm	1	73,58
SW 70090007	3,9 mm	1	73,58
SW 70090008	5,9 mm	1	59,71

1570/1

Set de baza Kablex® de scule scos papuci

• Nr 1501, 1502 scule de extras papuci diametru 1,5 si 2,5 mm
• Nr 1511, 1512 scule de extras mansete pentru papuci diametru 1,5 si 3,5 mm
• Nr 1553, 1591 scule de extras papuci plati 2,8 si 5,8 mm



	Dimensiune	Ambalare	
SW 96747303	6 piese	1	1456,23

1570/2

Set universal Kablex® de scule scos papuci

• Nr 1501, 1502, 1505 scule de extras papuci diametru 1,5/ 3,5/ 2,3mm
• Nr 1511, 1512, 1515 scule de extras mansete pentru papuci diametru 1,5/ 3,5/ 2,3mm
• Nr 1553 scula de extras papuci plati 2,8 si 5,8mm
• Nr 1556 scula de extras papuci Micro-Timer II, III plati de 1,6mm
• Nr 1559 scula de extras papuci Maxi-Power Timer plati 9,5mm
• Nr 1562 scula de extras papuci Pit-Pod
• Nr 1574 scula de extras papuci Micro-Timer I si din mufe pentru ABS, plati, 1,6mm
• Nr 1591 scula de extras papuci plati 2,8 si 5,8mm cu doua limbi de blocare



	Dimensiune	Ambalare	
SW 96747304	12 piese	1	3305,41

165N

Trusa de bercuit

• continut : o pereche de blocuri de fixare
2 conuri de evazare
o piesa de presare cu con invers

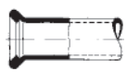


D



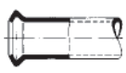
la 45º spre blocurile de fixare cu fata la poanson.Se inlocuieste conul de evazare cu piesa de bordurare

E



la 45º spre blocurile de fixare cu fata la poanson. Se preformeaza cu conul de evazare si se finiseaza cu conul de formare

F



la 45º spre blocurile de fixare cu fata la poanson. Se formeaza cu conul de evazare

F180°



de la forma F se intorc blocurile de fixare cu capatul la 90º si prin presare in continuare forma F va deveni cu guler plat

Usor de utilizat, dispozitivul de bercuire dubla va da o forma precisa a conurilor (DIN 74234) si a celor cu perete dublat (BUNDY®)

Odata prins in menghina dispozitivul este gata de utilizare. conurile de evazare si conul invers sunt se schimba rapid

Constructia robusta si forma conurilor de evazare permit evazarea cu un singur con a tevilor cu grosimea peretelui de 0,7- 1 mm.

Teava este tinuta orizontal de blocurile de fixare si un pin de limitare controleaza lungimea necesara pentru bercuire.

	Dimensiune	
SW 63031000	4.75; 5; 6; 8; 9; 10 mm; 3/16; 1/4; 5/16; 3/8"	3698,36

905/25

Set extractoare suruburi

• M 5-M 16, 3/16 "-5/8", 25 piese,
• in cutie de plastic verde
Continut:
• 5 burghie HSS (3.2; 4.8; 6.4; 8; 8.7 mm)
• 5 extractoare suruburi rupte 1-5 pentru filet M 5-M 16
• 5 tubulare canelate, dimensiuni 1-5
• 10 ghidaje gaurire, dimensiuni 1-10



	Dimensiune	Ambalare	
SW 96713025	M5-M16	1	1140,33

11061

Extractor cu 2 brate pentru rulmenti si inele de etansare

- *dispozitivul cu 2 brate se foloseste cu extractoarele de interior (71160021, 71161011) cu dimensiuni cuprinse intre 0 - 2)*
- *greutate 654 g*



	Dimensiune	Ambalare	
SW 71170011	0 - 2	*1*	**385,25**

11060

Extractoare de rulmenti si inele etansare fixate in interiorul arborelui cotit



	Dimensiune	Ambalare	
SW 71160021	16-20 mm	1	**427,62**
SW 71161011	12-16 mm	1	**416,07**

10356

Razuitor

- *pentru indepartarea resturilor de adeziv si a etichetelor de pe geamuri*
- *lama de 40x0,3mm interschimbabila cu capac de protectie*



	Latime	Lungime	Ambalare	
SW 74270005	40 mm	165 mm	1	**92,46**

10356R

Set 10 lame pentru razuitor

- *lama de 40x0,3mm*



	Ambalare	
SW 79270015	10	**58,56**

12007

Cheie filtru ulei

- *reglabila pentru diametre de la 80 la 110mm.*
- *camele calite si antialunecare asigura siguranta in timpul folosirii*



	Dimensiune	Ambalare	
SW 76521002	80 - 110 mm	1	**285,85**

2509

Cap cheie tubulara de impact, patrat de antrenare de 3/4", lunga, cu profil subtiat, pentru roti TRILEX

3/4"



	Dimensiune	Ambalare	
SW 25090027	27 mm	1	**423,77**
SW 25090030	30 mm	1	**454,59**
SW 25090032	32 mm	1	**481,56**
SW 25090033	33 mm	1	**489,26**

2609

Cap cheie tubulara de impact, patrat de antrenare de 1", lunga, cu profil subtiat, pentru roti

1"



	Dimensiune	Ambalare	
SW 26090027	27 mm	1	**508,52**
SW 26090030	30 mm	1	**566,31**
SW 26090032	32 mm	1	**600,98**

12705

Stetoscop pentru motor

- *sonda din otel, minerul si furtunul din plastic*



	Ambalare	
SW 74060001	1	**535,49**

13126-2

Lanterna tip stilou

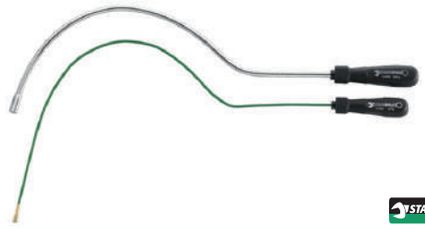
- *certificata pentru zona 1*
- *agrementari : II 2G Ex e ib IIB T4 Gb, II 2D Ex ib IIIC T60C IP6X Db*
- *de 3 ori mai luminoasa datorita led-ului puternic*
- *corp din ABS neconducator electric cu protectie anticoroziune si rezistenta la impact*
- *stralucirea fasciculului constant pe 80% din durata de viata a bateriei datorita circuitelor eLED*
- *buton de pornire cauciucat pentru folosire temporara sau continua*
- *protectie la apa pina la IP68, 3 m adincime*
- *luminozitate 35 lumen*
- *raza de actiune 64 m*
- *baterii 2x AAA alkaline neincluse*



	Ambalare	
SW 77490012	1	**446,89**

12600

Recuperator magnetic flexibil



	Dimensiune	Ambalare	
SW 77260025	460 mm	1	191,08
SW 77260027	500 mm	1	62,41

13100

Set pile ac

- *6 bucati in husa de plastic*
- *continut : cite o pila plata, patrata, triunghiulara, rotunda, semirotunda si ovala*

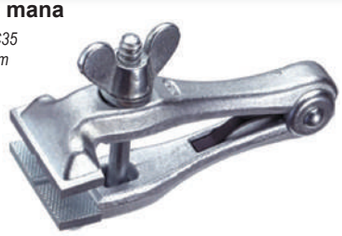


	Ambalare	
SW 96722801	1	493,11

12200

Menghina de mana

- *material: otel forjat C35*
- *latimea falcilor 48 mm*



	Dimensiune	Ambalare	
SW 71200000	145 mm	1	311,28

12378

Perie sarma maner lemn



	Dimensiune	Ambalare	
SW 77250000	260 mm	1	38,14

1204/8

Set biti TORX plus

- *1 adaptor biti*
- *7 biti cu 5 canturi, cu gaura pentru pin siguranta marimile 10, 15, 20, 25, 27, 30, 40*
- *se utilizeaza la suruburi pentru generatoare, unitati de management al motorului, senzori de debit, imobilizatoare si pompe de injectie (FORD, MERCEDES BENZ, HGV, ROVER, VOLVO, VW/AUDI)*



	Dimensiune	Ambalare	
SW 96080113	8 piese	1	343,65

TPI 10, 15, 20, 25, 27, 30, 40
adaptor 1/4" - C 6.3

12506

Surubelnita flexibila cu cap tubular

- *dimensiune cap tubular: 6 mm;*
- *lungime tija: 150 mm;*
- *lungime totala: 265 mm;*
- *greutate: 167 g;*
- *cuplul maxim de torsiune: 8 Nm;*
- *pentru suruburile colierelor furtunului radiatorului*



	Dimensiune	Ambalare	
SW 43100206	6 mm	1	130,98

4008

Surubelnita cu clichet cu cap tubular

- *schimbare usoara a sensului prin rotirea inelului*
- *maner ergonomic si bimaterial pentru transmiterea optima a fortei*
- *compartiment pentru 6 biti in miner*
- *pentru biti cu coada hexagon 1/4" sau DIN 3126/ISO 1173 Tip C6,3*
- *tubularele cu antrenare 1/4"se pot folosi cu adaptorul Nr 3115/1*
- *schimbare usoara a bitilor datorita magnetului*
- *mecanism pentru coditii grele cu 48 de dinti*



	Dimensiune	Ambalare	
SW 18120001	6,3 mm	1	178,75

12941N

Pistol de lipit

- *putere: 100 W*
- *tensiune de alimentare: 230 V / 50 Hz*



	Putere	Ambalare	
SW 96774200	100 W	1	706,54

12943N

Letcon

- *putere: 60 W*
- *tensiune de alimentare: 230 V / 50 Hz*



	Putere	Ambalare	
SW 77420060	60 W	1	454,59

99-CD1

Kit pentru calarea distributiei la motoare diesel

- *motoare diesel: Renault, PSA, VAG, Volvo*
- *ideal pentru reglarea si fixarea arborelui cu came si sistemului biela-manivela*
- *utilizat si pentru: cureaua de transmisie si pompa de injectie*



	Dimensiune	Ambalare	
99CD1	210x170x50 mm	1	**1595,98**

99-CD8A

Kit pentru calarea distributiei la motoare diesel si benzina

- *kit pentru supapa de distributie Audi, VW, Seat, Skoda, Ford*
- *pentru Audi: Benzina: A2-A3-A4-S4-A6-A8-TT-80-100-Allroad*
- *pentru Seat: Benzina si diesel: Arosa, Ibiza, Cordoba, Toledo, Leon, Inca, Malaga, Alhambra*
- *pentru Skoda: benzina - Fabia, Felicia, Octavia; diesel: Felicia, Pick up, Cube Van, Octavia*

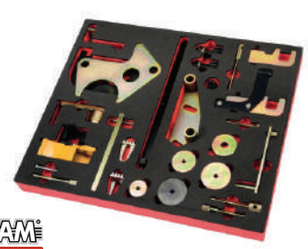


	Dimensiune	Ambalare	
99CD8A	285x195x50 mm	1	**2500,96**

99-REN

Kit pentru calarea distributiei la motoare diesel si benzina Renault

- *motoare Diesel: 1.5dCi K9K, 1.9dCi F9Q, 2.2dCi G9T, 2.5dCi G9U. 1.6D F8M, 1.9D F8Q, 1.9D Turbo F8Q, 1.9dTi F9Q, 2.1D Turbo J8S, 2.2D/Turbo G8T*
- *motoare cu benzina: 1.4 16v. K4J, 1.6 16v. K4M, 1.8 16v. F4P, 2.0 16v. F4R, 1.2 D7F / E7F, 1.2 16v D4F, 1.4 E7J, 1.8 F3P, 1.8, 16v F7P, 2.0 F3R / J7R, 2.0 16v F7R, 2.2 J7T*
- *Renault : Clio, ClioII/Campus, Clio II, Clio III, Modus, Logan, Megane, Megane II, Scenic/RX4, Scenic/Grand Scenic II, Laguna, Laguna II, Espace/Grand Espace, Kangoo, Trai c, II, Megane Scenic, R19, Safrane, R5/Van, Extra/Rapid/Express, Trai c, Twingo, Master II*



	Dimensiune	Ambalare	
99REN		1	**6673,32**

C-364-C

Compresmetru pentru motoare cu benzina VL

- *compresmetru cu citire directa a presiunii 0-25 bari*
- *include 5 adaptoare si furtun flexibil*



	Dimensiune	Ambalare	
C364C	0 - 25 bar	1	**2332,26**

C-370-B

Compresmetru pentru motoare diesel VL

- *compresmetru cu citire directa a presiunii 0-70 bari*
- *include instructiuni de utilizare pentru fiecare tip de vehicol*



	Dimensiune	Ambalare	
C370B	0 - 75 bar	1	**8341,65**

FL-11

Multimetru

- *special concepute pentru aplicatii in domeniul auto*
- *tensiune curent continuu 3.2V - 1000V si tensiune curent alternativ 3.2V - 750V*
- *curent continuu 32mA - 10A si curent alternativ 32mA - 300mA*
- *rezistor 320 - 32 Ohms*
- *banda de frecventa 0.01 Hz - 32kHz*
- *test dioda*
- *tachometru 0 - 12,000 revs*
- *temperatura optima de masurare 20°C to +1370°C sau 0°F to 2000°F*
- *display numeric, bara grafica, anti-soc*
- *indicator de baterie descarcata*
- *oprire automata (dupa 10 minute)*
- *setul de livrare include: cablu, sonda de temperatura, traductor de curent tip cleste*



	Dimensiune	Ambalare	
FL11		1	**1702,38**

913-T

Tester universal

- *pentru masurarea voltajului in curent altenativ si continuu 6 - 690V*
- *cu 2 rezistente care prelungesc viata testerului*
- *grad de protectie IP40*
- *alimentat cu 2 baterii 1.5V LR03*
- *avertizare dubla vizuala si sonora*
- *cablu 1.10m*
- *conform : DIN 57105*



	Dimensiune	Ambalare	
913-T		1	**1034,20**

FET-10

Purjor electric pentru frane

- *ideal pentru purjarea lichidului de frana in mai putin de 15 minute*
- *nu necesita decat un singur operator*
- *umplere si orpire automata la un rezervor de 5 l*
- *dimensiuni reduse pentru depozitare usoara*
- *presiune: 0-4 bari*
- *livrat cu un bidon de recuperare a lichidului de 1 l*



	Dimensiune	Ambalare	
FET10	0 - 4 bar	1	**8665,10**

BAL-19

Lampa de inspectie cu leduri IP67

- *luminozitate de pana la 950 Lux pentru o raza de 0.6 m*
- *putere 1.5W, voltaj 3.6V*
- *doua trepte de lumina*
- *1: aprinde 1 LED*
- *2: aprinde 2 LED-uri*
- *3: stinge lumina*
- *lumina alba fara degajare caldura: temperatura <30°C*
- *anti-soc*
- *anti-acvatica pana la 1 ora, protectie la uzura*
- *baterii Ni-Nh cu durata lunga de viata*
- *autonomie: 6 ore*
- *se livreaza impreuna cu incarcator la 220V si suport*
- *dimensiuni: 300 mm (lungime) x 50 mm (latime)*



	Dimensiune	Ambalare	
BAL19	300 mm	1	**1089,53**

694-C-16-N

Set de preducele 16 piese

• preducele interschimbabile, usor de montat pe sistemul de fixare patentat
• realizate din otel special tratat prin inductie (56-58 HRC) cu o toleranta maxima a dimensiunii - 0,2 mm
• ideale pentru: carton, piele, cauciuc, fibre, din plastic, plumb, etc.
• sistemul de prindere permite folosirea preselor manuale sau hidraulice
• set livrat intr-o cutie rezistenta la compusi chimici



	Dimensiune	Ambalare	
694-C-16-N	3-30/15 piese	1	**3323,50**
3-4-6-8-10-12-14-16-18-20-22-24-26-28-30			

694-C-32-N

Set de preducele 32 piese

• preducele interschimbabile, usor de montat pe sistemul de fixare patentat
• realizate din otel special tratat prin inductie (56-58 HRC) cu o toleranta maxima a dimensiunii - 0,2 mm
• ideale pentru: carton, piele, cauciuc, fibre, din plastic, plumb, etc.
• sistemul de prindere permite folosirea preselor manuale sau hidraulice
• set livrat intr-o cutie rezistenta la compusi chimici



	Dimensiune	Ambalare	
694-C-32-N	3-60/30 piese	1	**4912,80**
3-4-6-8-10-12-14-16-18-20-22-24-26-28-30-32-34-36-38-40-42-44-46-48-50-52-54-56-58-60			

359-C2

Set cleste nituri pop si accesorii

• 400 nituri pop din aluminiu cu diametrul de 3 si 4 mm pentru adancimi cuprinse intre 1,5 si 7,5 mm
• 1 cleste nituri pop de 270 mm cu 4 capete de nituire: 2,2 3,2 4 and 4,8 mm



	Dimensiune	Ambalare	
359C2	320x200x400 mm	1	**813,57**

EX-370B

Ciocan inertial



	Dimensiune	Ambalare	
EX370B		1	**885,23**

385SI/ISO

Dispozitiv de reconditionat filete

• ideal pentru restaurarea filetelor interioare si exterioare: SI, ISO



	Dimensiune	Ambalare	
385-SI	SI	1	**303,88**
	75 - 100 - 125 - 150 - 175 - 200 - 250 - 300		
385-ISO	ISO	1	**303,88**
	80 - 100 - 125 - 150 - 175 - 200 - 250 -300		

SDP-16

Cheie profil XZN pentru buson schimbare ulei la cutia de viteze

• pentru VAG, Porsche
• pentru patrat de antrenare de 1/2"



1/2"

	Dimensiune	Ambalare	
SDP-16	M16 x 60 mm	1	**114,06**

STR-10

Cheie profil triunghiular pentru buson schimbare ulei la cutia de viteze

• pentru Peugeot, Renault
• pentru patrat de antrenare de 3/8"



3/8"

	Dimensiune	Ambalare	
STR-10	M16 x 60 mm	1	**114,06**

344-4

Stretoscop de mare fidelitate

• utilizat pentru localizarea zgomotelor, vibratiilor etc.
• dispozitiv de inalta sensibilitate, ideal pentru detectarea zgomotelor de la motor si alte aplicatii



	Dimensiune	Ambalare	
344-3		1	**674,99**

DYTFZ

Cheie dinamometrica cu cap fix DYNATECH®

• clichet cu 72 dinti cu un unghi de 5°
• in conformitate cu ISO 3315



	Dimensiune	Ambalare	
DYTFZ-5	1/4" 1 - 5 Nm	1	**1658,97**
DYTFZ-50	3/8" 10-50 Nm	1	**1658,97**

DYTC

Cheie dinamometrica cu capete interschimbabile DYNATECH®

• clichet cu 72 dinti cu un unghi de 5°
• in conformitate cu ISO 3315
• capete 9x12 pentru DYTC-5-Z, DYTC-25-Z, DYTC-50-Z, DYTC-100-Z
• capete 14x18 pentru DYTC-200-Z. DYTC-350-Z



	Dimensiune	Ambalare	
DYTC-50-Z	3/8" 10-50 Nm	1	**2539,79**
DYTC-350-Z	1/2" 70-350 Nm	1	**2808,92**

AST-4635

Scula reglarea distributiei la motor diesel VAG 1.4 1.6

• modele: Audi - A2 (00-06); Seat - Arosa (99-05), Ibiza / Cordoba (99-08), Leon (99-05), Toledo (99-05), Inca (00-04); Skoda - Fabia (99-07), Octavia (00-08); VW - Lupo (98-05), Polo (98-07), Golf / Bora (97-08) Beetle (01-08), Caddy (99-08)
• motoare:
1.4 16v - AFK, AHW, AKQ, APE, AQQ, AUA, AUB, AXP, BBY, BBZ, BCA, BKY, 1.4 Fsi - ARR, 1.6 - ADB fsi, 1.6 16V - AJV, ARC, ATN, AUS, Avy, AZD, BCB



	Dimensiune	Ambalare	
AST-4635		1	**898,82**

AST-4740

Scula reglarea distributie la motor benzina VAG 1.6 TO

• AUDI - 80 (91-96), A3 (96-08), S3 (99-03), A4 (95-08), Cabriolet (94-08), A6 (94-08), TT (98-05); SEAT - Arosa (98-05), Ibiza/Cordba (93-02), Leon (99-05), Altea (04-08), Toledo (94-08), Alhambra (95-04), Inca (96-04); SKODA- Fabia (00-07), Octavia (96-07), Superb (02-08); VW- Lupo (99-06), Polo/Classic (95-02), Golf/Bora (94-08), Beetle (99-08), Passat (96-08), Touran (03-08), Sharan (95-08), Caddy (95-06), Transporter (90-08)
• motoare: 1.6 -, 1F, ABM. ADA, ADP, AEH, AEK, AFT, AHL, AKL, AKS, ALZ, ANA, APF, ARM, AUR, AVU, AYD, BFQ, BFS, BFQ, BGU, BSE, BSF; 1.8 - ABS, ADR, ADZ, AGN, AJP, APG, APT, APX, ARG; 1.8T - AEB, AGU, AJH, AJL, AJQ, AMK, ANB, APP, APU, APY, AQA, AQX, ARX, ARY, ARZ, AUM, AVC, AWC, AWT, AWU, AUQ, AYP, BAM; 1.8 16v - ADL; 2.0 - 2E, AAC, AAE, ABF, ABK, ABT, ACE, ADY, AEG, AGG, AKT, APK, AQY, ATM, ATU, AWF, AWG, AXA, AZH, AZJ, AZL, AZM, BEH; 2.0 16v - ABF Essence; 2.0 FSi/ TFSi - AXW, AXX, BGB, BHD, BLR, BLY, BMB, BPJ, BPY, BWA



	Dimensiune	Ambalare	
AST-4740		1	**2298,37**

293

Cleste de forta cu tais frontal

• cu arc de redeschidere



Zbirovia

● 2,5 mm

	Dimensiune	Ambalare	
ZB293200	200	10	366,60

312

Cleste de forta cu tais lateral

• cu arc de redeschidere



Zbirovia

● 2,5 mm

	Dimensiune	Ambalare	
ZB312200	200	10	378,62

2474

Cleste pentru sigilii



Zbirovia

	Dimensiune	Ambalare	
ZB247410	Φ 10	1	492,81

2474.1

Bacuri de schimb pentru cleste sigilii 2474



Zbirovia

	Dimensiune	Ambalare	
ZB247411	Φ 10	1	36,06

831

Cleste pentru perforat



Zbirovia

	Dimensiune	Ambalare	
ZB831004	Φ 4	1	238,39

257

Cleste rapid pentru tevi



Zbirovia

	Dimensiune	Ambalare	
ZB527270	270 mm (1.3/4")	1	158,26
ZB257300	300 mm (2")	1	176,29

246

Cleste universal pentru tevi



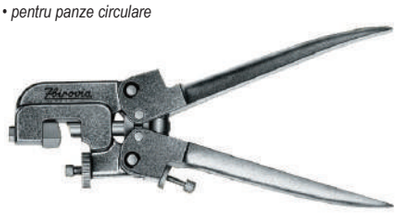
Zbirovia

	Dimensiune	Ambalare	
ZB246450	450 mm (2.1/2")	1	388,64
ZB246600	600 mm (3.1/2")	1	478,78

1717

Cleste pentru ceaprazuit

• pentru panze circulare



Zbirovia

	Dimensiune	Ambalare	
ZB171700	4	1	556,91

61045

Cleste STILSON GGG-W-651-E Tip II Clasa A



	Dimensiune	Ambalare	
61045	60" (8")	1	3704,17

Cleste STILSON GGG-W-651-E Tip II Clasa C

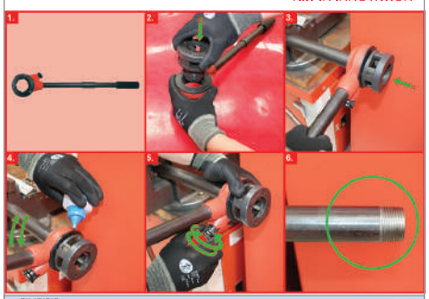


	Dimensiune	Ambalare	
61044	10" (1.1/2")	1	221,07
61028	48" (6")	1	2028,95

63010

Antrenor trusa de filetat BSPT 1.1/4"/2"





	Dimensiune	Ambalare	
63010	1.1/4"/2"	1	718,30

Set bacuri BSPT



	Dimensiune	Ambalare	
63042	1/2"	1	162,31
63043	3/4"	1	162,31
63044	1"	1	162,31
63046	1.1/2"	1	260,21

Capete de filetat BSPT



	Dimensiune	Ambalare	
63003	1/2"	1	283,68
63004	3/4"	1	283,69
63005	1"	1	309,84
63008	1.1/2"	1	605,07

61579

Perie de sarma INOX 4 randuri cu maner plastic



	Dimensiune	Ambalare	
61579	240 mm	1	80,08

60015

Dispozitiv hidraulic indoit tevi 2" CURVAMATIC - 2



	Dimensiune	Ambalare	
60015	2"	1	8672,85

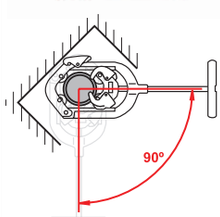
Forme pentru indoit tevi pentru dispozitiv CURVAMATIC - 2



	Dimensiune	Ambalare	
64190	1/4", 3/8", 1/2"	1	104,09
64191	3/4"	1	150,22
64192	1"	1	253,94
64193	1.1/4"	1	666,88
64194	1.1/2"	1	666,88
64195	2"	1	950,29

Dispozitiv articulat cu role pentru taiat tevi

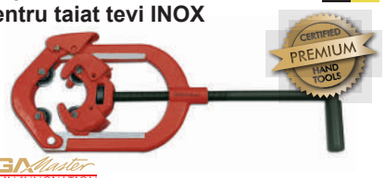






	Dimensiune	Ambalare	
63355	2"-4"	1	6313,91
63356	4"-6"	1	7651,79
63357	6"-8"	1	10701,71
63358	8"-12"	1	12842,00

Dispozitiv articulat cu role pentru taiat tevi INOX



	Dimensiune	Ambalare	
63359	2"-4"	1	6313,91
63360	4"-6"	1	7651,79
63361	6"-8"	1	10701,71
63362	8"-12"	1	12842,00

Role taietoare pentru dispozitivul articulat cu role pentru taiat tevi

	Dimensiune	Ambalare	
64173	2"-4"	1	156,84
64174	4"-6"	1	156,84
64175	6"-8"	1	156,84
64176	8"-12"	1	156,84

68206

Trusa scule pentru expandat tevi cupru moale si aluminiu 12-15-18-22 mm

- *dispozitiv de expandat tevi (cod 68175)*
- *material corp: otel carbon*
- *material varf: otel inoxidabil*
- *duritate varf: 50-55 HRc*
- *filet prindere: 1.5/8" - 11TPI*
- *capete de expandat: 12-15-18-22 mm*
- *dispozitiv de taiat tevi plastic 3-32 mm*
- *debavurator interior/exterior 4-40 mm*
- *cutie din plastic*



	Dimensiune	Ambalare	
68206	2"	1	3390,92

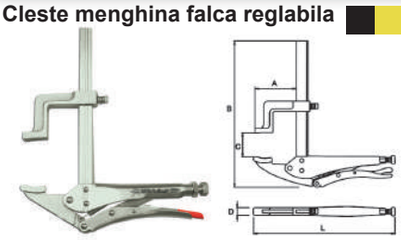
Lampa cu gaz

- *capacitate: 750 g*
- *temperatura max: 1750°C*



	Dimensiune	Ambalare	
63219	750	1	395,83

Cleste menghina falca reglabila



	L	A	B	C	D	
62571	10"	79	292	170	15	743,56

MINI 22

Dispozitiv de taiat tevi Cu Ø3-22 mm

- *material corp: aliaj zinc*
- *material rola taietoare: otel special (55-60 HRc)*



	Dimensiune	Ambalare	
63106	3-22 mm	1	75,68

CLASSIC 32

Dispozitiv de taiat tevi Cu Ø3-32 mm

- *material corp: aliaj aluminiu*
- *material rola taietoare: otel special (55-60 HRc)*



	Dimensiune	Ambalare	
63170	3-32 mm	1	117,61

TELESCOPIC 32

Dispozitiv de taiat tevi Cu Ø3-32 mm

- *material corp: aliaj aluminiu*
- *material rola taietoare: otel special (55-60 HRc)*



	Dimensiune	Ambalare	
63105	3-32 mm	1	191,42

UNIQUE 42

Dispozitiv de taiat tevi Cu Ø6-42 mm

- *material corp: aliaj aluminiu*
- *material rola taietoare: otel special (55-60 HRc)*



	Dimensiune	Ambalare	
63119	6-42 mm	1	289,32

STEEL PIPE CUTTER

Dispozitiv de taiat tevi otel Ø1/8"-1.1/4"

- *material corp: aliaj aluminiu*
- *material rola taietoare: otel special*



	Dimensiune	Ambalare	
63172	1/8"-1.1/4"	1	560,56

STEEL PIPE CUTTER

Dispozitiv de taiat tevi otel Ø2"-4"

- *material corp: aliaj aluminiu*
- *material rola taietoare: otel special*



	Dimensiune	Ambalare	
63175	2"-4"	1	1417,87

PLASTIC PIPE CUTTER

Dispozitiv de taiat tevi plastic Ø35 mm

- *material corp: aluminiu*
- *material lama: otel inoxidabil (54-56 HRc)*
- *cu sistem de blocare*



PB, PEX, MULTISTRAT

	Dimensiune	Ambalare	
63199	35 mm	1	110,00

PLASTIC PIPE CUTTER

Dispozitiv de taiat tevi plastic Ø42 mm PIRAINA®

- *material corp: aliaj special de aluminiu*
- *material lama: otel special (56-62 HRc)*
- *cu sistem de blocare*
- *taieri curate cu efort minim cu lama in forma de "V"*
- *maner ergonomic anti-alunecare*



KEVLAR, PVC, PE, PP, PB, VPE, PVDF, MLP, HTA, PPR, PEX, MULTISTRAT



geometrie precisa *KEVLAR* *PVC rigid*

	Dimensiune	Ambalare	
63205	42 mm	1	548,28

PLASTIC PIPE CUTTER

Dispozitiv de taiat tevi plastic Ø42 mm

- *material corp: aluminiu*
- *material lama: otel inoxidabil (54-56 HRc)*
- *cu sistem de blocare*
- *taieri curate cu efort minim cu lama in forma de "V"*



PE, PP, PB, VPE, PVDF, MLP, PPR, PEX, MULTISTRAT

	Dimensiune	Ambalare	
63200	42 mm	1	219,28

63085

Dispozitiv de debavurat tevi interior/exterior Ø40 mm

- *material corp: plastic*
- *material lama: otel special*
- *pentru tevi din: cupru, alama, aluminiu*

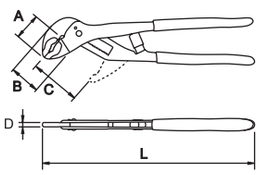


	Dimensiune	Ambalare	
63085	40 mm	1	151,47

Cleste reglabil cu auto-blocare si arc de redeschidere

- *material: crom vanadiu*
- *duritate generala: 43-48 HRc*
- *duritate dinti: 42-50 HRc*
- *duritate pin: 28-50 HRc*
- *maner anti-alunecare*
- *finisare: fosfatare*
- *conform DIN 8976*





	L	A	B	C	D	gr	
62706	7"	24	30	47	6	200	207,10
62707	10"	30	39	59	7,5	350	227,88
62708	12"	36	46	71	8	550	277,59

63137

Trusa de filetat NPT 1/2”-2”

- *capete de filetat cu bacuri din otel special 58-62 HRc*
- *clichet din aliaj de aluminiu 45-50 HRc*



	Dimensiune	Ambalare	
63137	1/2”-2”	1	**3170,66**

63031

Trusa de filetat NPT 1/2”-1”

- *capete de filetat cu bacuri din otel special 58-62 HRc*
- *clichet din aliaj de aluminiu 45-50 HRc*



	Dimensiune	Ambalare	
63031	1/2”-1”	1	**1490,07**

KIT 2

Filiera reglabila NPT 1/4”-2”



	Dimensiune	Ambalare	
63162	1/4-2”	1	**4399,35**

KIT 4

Filiera reglabila NPT 2.1/4”-4”



	Dimensiune	Ambalare	
63167	2.1/4-2”	1	**7219,78**

TRISTAND

Stand cu menghina cu lant 6”



	Dimensiune	Ambalare	
61200	1/8”-6”	1	**5307,55**

Sarpe desfundat tevi



	Dimensiune	Ambalare	
69505	3 m	1	**50,88**
69506	5 m	1	**179,87**
69507	10 m	1	**314,85**

Trusa de filetat BSPT

- *capete de filetat cu bacuri din otel special 58-62 HRc*
- *clichet din aliaj de aluminiu 45-50 HRc*



	Dimensiune	Ambalare	
63021	3/8"-1.1/4"	1	**2094,69**
63022	1/2"-1.1/4"	1	**1835,11**
63024	3/8"-1"	1	**1749,03**
63025	1/2"-1"	1	**1490,07**

63132

Trusa de filetat BSPT

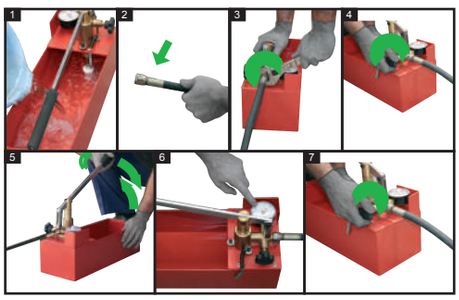


	Dimensiune	Ambalare	
63132	1/2”-2”	1	**3170,66**

Pompa de testat tevi

- *valva: bronz*
- *maner de actionare: zincat*
- *manometru: 0-60 bar (0-860 Psi)*
- *racord manometru: 1/4" BSP*
- *racord furtun evacuare: 1/2" BSP*
- *furtun cu 2 racorduei 1/2" BSP*
- *lungime furtun: 1,5 m*
- *diametru exterior furtun: 19 mm*
- *capacitate rezervor: 12 litri*





1. Umpleti rezervorul cu apa curata. Filtrul trebuie să fie întotdeauna plasat corect
2. Conectati furtunul la instalatia verificata
3. Conectati furtunul la pompa, asigurati-va ca nu exista scurgeri
4. Inchideti robinetul
5. Pompati pana atingeti presiunea de testat
6. Lasati pompa la presiunea necesara in timpul testarii
7. Deschideti robinetul parmitand apei sa iasa

	Dimensiune	Ambalare	
60005	60 bar	1	**1843,62**



SCULE IZOLATE LA 1000 V

Protectia totala

Sculele izolate VDE Unior asigura protectia totala, chiar si la utilizarea in apropierea sau in contact cu circuitele sub tensiune cu un potential mergand pana la 1000 Volti. Sculele sunt controlate prin teste de rezistenta la impact,la electricitate, la foc, de adeziune a izolatiei si de rezistenta la strapungere, fiecare scula fiind controlata individual.

Otel de inalta calitate

Cheile noastre, clestii, foarfecii, surubelnitele si alte scule izolate concepute pentru lucrul la instalatii electrice sau care folosesc alta forma de energie sunt fabricate din oteluri de inalta calitate, cu protectie sporita si sunt concepute pentru o utilizare simpla si sigura.

Reglementarile VDE

Izolate si controlate conform reglementarilor VDE, sculele Unior destinate lucrarilor sub tensiune satisfac exigentele normelor europene EN60900, recunoscute international

UNIOR FRIEDRICH Sicherheitswerkzeuge ABSINA Es dreht sich um Einfachheit. IREGA THE ADJUSTABLE IS OUR WORLD

O procedura speciala de fabricatie a sculelor izolate

1. Forjarea la rece a capului tubular: Se foloseste un proces tehnologic cu doua etape, care include revenirea, fosfatarea si contractarea.



2. Prelucrate pe CNC a capului tubular: Un CNC special est folosit pentru a uzina capetele tubulare la dimensiunile dorite, care sunt in concordanta cu normele ISO



3. Sablare: curatarea suprafetei inainte de cromare este importanta pentru marirea calitatii si durabilitatii protectiei suprafetei

4. Cromare: Capul tubular este placat cu un strat subtire si dur de oxid de crom care protejeaza contra coroziunii, uzurii si a altor defecte mecanice. In acelasi timp, da intregului cap tubular un aspect lucios.



ACOPERIRE PRIN PLASTIFIERE

5. Plastifiere dublu strat: Procesul de acoperire cu mai multe straturi de plastic potrivite pentru lucru in conditii de voltaj ridicat consta intr-o serie de operatiuni cu parametri de implementare exact definiti care nu trebuie sa se abata de la cerinte. Este singurul mod de a obtine produse de calitate si - cel mai important - de siguranta ridicata. Inainte de plastifiere, partea metalica a sculei trebuie sa fie pregatita pentru acest proces. Este degresata intr-un container cu acetona si apoi uscata. Pentru ca materialul si partea metalica a sculei sa adere eficient in locurile cerute, partile metalice sunt cufundate intr-un lichid special care activeaza proprietatile de aderenta. Aceasta operatiune este urmata de montarea piesei pe suporti speciali. Procesul de incalzire incepe intr-un cuptor special si este imediat urmat de cufundarea in material portocaliu. Trebuie apoi scos din acest material, care este incalzit la temperatura potrivita, cu viteza optima astfel incat materialul sa nu picure. Inainte de aplicarea celui de al doilea strat de plastic, piesele sunt gelatinizate in cuptor la temperatura prescrisa. Urmeaza apoi acoperirea cu un al doilea strat din material rosu, procesul de gelatinizare este repetat, iar startul final de palstic,din nou din material rosu, da piesei grosimea finala de acoperire din 2-3 straturi. Pentru stralucirea si aspectul profesional, piesele sunt stabilizate in cuptor la temperatura stabilita.







PORTOCALIU CA SEMNAL DE AVERTISMENT

Protectia de plastic dublu a sculelor VDE asigura o dubla securitate, pentru ca permite reperarea uzurii in timp util. O uzura mai importanta a sculei este semnalata de aparitia culorii portocalii, care semnalizeaza necesitatea inlocuirii sculei





Scula in stadiu de siguranta



Scula uzata - inlocuire imediata

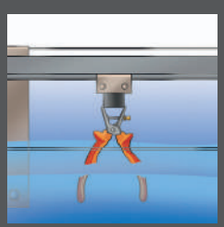




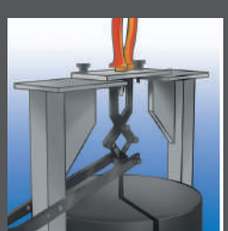
Chei fixe	702
Chei inelare	702
Capete chei tubulare	703
Chei imbus	703
Capete chei tubulare cu patrat de 3/8”	703
Capete chei tubulare cu patrat de 1/2”	705
Clesti plastic	707
Clesti combinati	707
Clesti multipriza	708
Clesti diagonali si taietori	709
Clesti cu varf plat si rotund	710
Clesti taietori de cabluri	712
Dezizolatori	713
Surubelnite drepte	713
SurubInite in cruce	714
Surubelnite imbus	714
Surubelnite Torx	714
Surubelnite PZ	714
Surubelnite cu capete tubulare	715
Testere de tensiune, taietori, clesti mici	715
Trusa de scule	717
Seturi in SOS	719
Chei universale pentru panouri	721



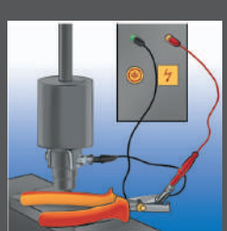
TEST DE REZISTENTA LA FOC
Piesa testata este expusa unei flacari timp de 10 secunde. Rezultatul este satisfacator daca, in perioada de observatie de 20 de secunde dupa inlaturarea arzatorului, flacara care arde manerul nu depaseste o inaltime de 120 mm.



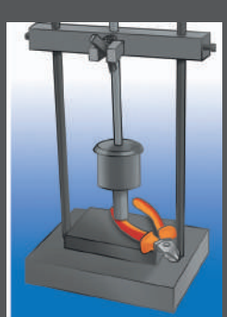
TEST ELECTRIC (10KV)
Inainte de test, sculele sunt cufundate intr-o baie de apa la 23°C timp de 24 de ore (+- 5 ore). Rezultatul este satisfacator daca nu apare nici o descarcare, nici o scanteie si nici un arc electric, si daca pierderea de curent este mai mica de 1 mA pentru o izolatie in grosime de 20 mm.



TESTUL DE ADERENTA
Piesa de test este in prealabil incalzita 168 ore la 70°C (_/+ 2°C). Manerul este incarcat cu greutati (500N). Durata de incercare este de 3 minute. Rezultatul este satisfacator daca manerul ramane atasat ferm de partea conductoare.



TEST DE REZISTENTA LA PENETRARE
Penetratorul, incarcat cu o sarcina de 20N, este aplicat in centrul manerului. Rezultatul este satisfacator daca piesa de test trece dupa aceea a testului electric



TEST DE REZISTENTA LA IMPACT
Testarea este realizata intr-o camera cu temperatura de +/- 23° C. Se lasa ciocanul in cadere libera pe piesa de test de trei ori. Rezultatul este satisfacator daca manerul nu este nici spart nici crapat si nu arata semne de deformare

1000 V
IEC 60900

1000 V
IEC 60900
Scule de mana pentru lucrul sub tensiune pana la 1000 V.A.C.

Semnul institutului de certificare a sculelor (VERBAND DEUTSCHER ELEKTROTECHNIKER)

Un semn care atesta conformitatea sculelor cu norma DIN care reglementeaza cerintele de baza pentru scule (dimensiune, duritate, proprietati mecanice, etc.)

Caracteristicile clestilor Unior



Gama VDE BI
- material: compozitie speciala pentru calire revenire
- tratat complet
- partile taietoare tratate prin inductie
- cap polizat
- finisare: cromat in conformitate cu standardul EN12540
- manere bimaterial pentru conditii grele
- marcaj injectat UNIOR



Gama VDE DP
- material: compozitie speciala pentru calire revenire
- tratat complet
- partile taietoare tratate prin inductie
- cap polizat
- finisare: cromat in conformitate cu standardul EN12540
- scule VDE cu strat dublu de izolare, pentru o securitate dubla.
- verificati la timp gradul de uzura a sculelor DP VDE

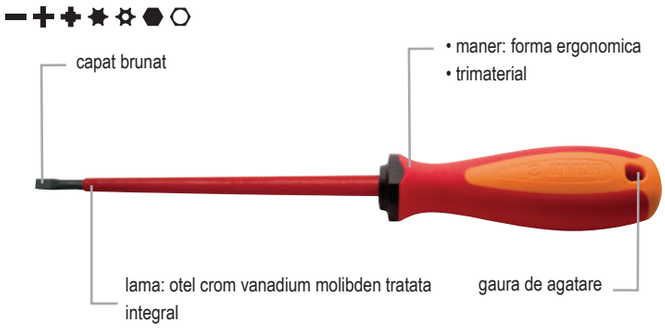
Caracteristicile cheilor Unior

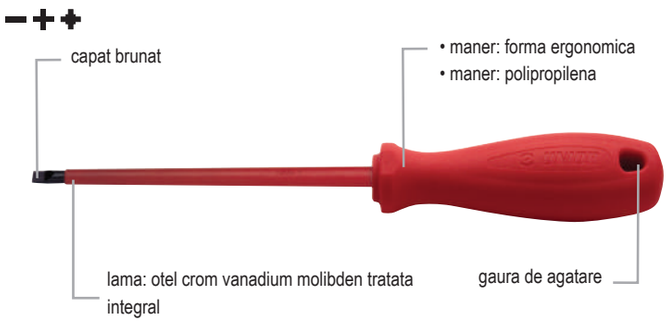


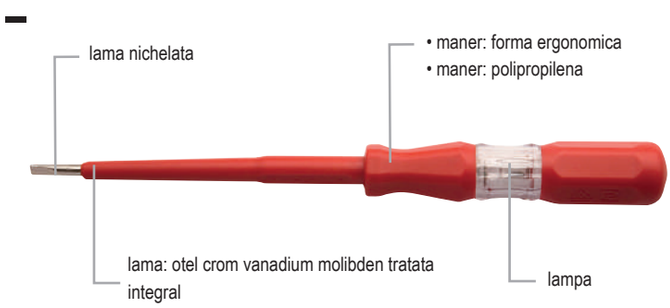
Chei
- material: crom-vanadiu
- cap: cromat in concordanta cu EN12540
- in concordanta cu standardul EN 60900:2004

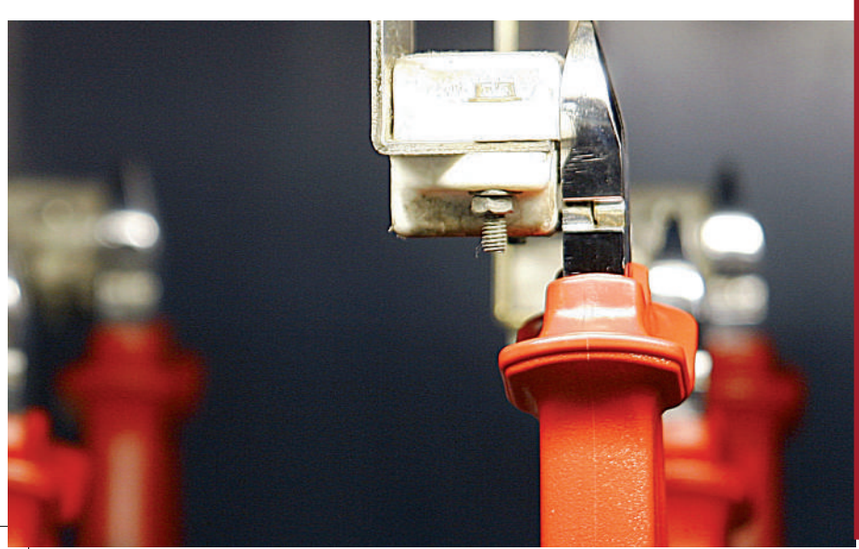


Caracteristicile surubelnitelor Unior



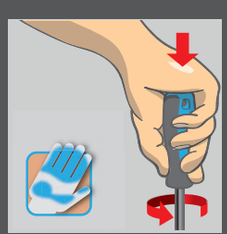


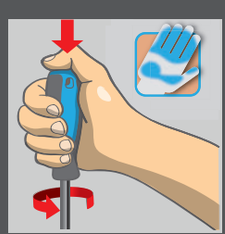




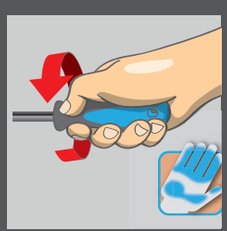


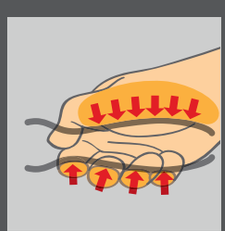
MANER ERGONOMIC
Combinatia de suprafete dure si moi imbunatateste factorul de incarcare si asigura insurubarea usoara. Manerul a fost conceput in asa fel incat are grija de sanatatea utilizatorului pentru ca reduce tensiunea in muschii mainii





Suprafata maximala de contact a mainii = valoare de cuplu superioara





Conceptia ergonomica a manerului = protejarea mainii

110/2VDEDP

Cheie fixa simpla izolata la 1000 V

- *material: crom vanadiu*
- *cap: cromat in concordanta cu EN12540*
- *in concordanta cu standardul EN 60900:2004*

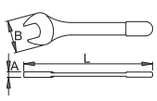
Avantaje:

- *dublu strat - dubla protectie, doua straturi de culori diferite*
- *controlul se face prin testare electrica*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		L	B	A				
618370	6	72	16	6.9	19	1E	10	**43,15**
618331	7	82	16.1	6.9	26	1E	10	**43,73**
617801	8	95	21	7	30	1E	10	**45,73**
621575	9	100	24.5	7.5	35	1E	10	**47,38**
612175	10	105	24.5	7.5	42	1E	10	**47,67**
612176	11	112	26	7.5	51	1E	10	**48,79**
612177	12	125	28	8	65	1E	10	**48,79**
612178	13	132	30.5	8.5	76	1E	10	**51,08**
612179	14	140	33	8.5	84	1E	10	**52,20**
612180	15	150	35	9	96	1E	10	**53,61**
621576	16	154	40	10	118	1E	10	**56,72**
612181	17	157	40	10	137	1E	10	**58,42**
621577	18	165	44	11	151	1E	10	**61,78**
612182	19	170	44	11	170	1E	10	**67,18**
618333	20	175	46.4	12.2	184	1E	10	**69,12**
619201	21	180	48.8	12.5	213	1E	10	**69,12**
612183	22	195	49	13	234	1E	5	**72,82**
618335	23	210	52.8	13.1	251	1E	5	**75,64**
612184	24	220	56	14	311	1E	5	**80,41**
621578	26	235	59	15	361	1E	5	**88,87**
617802	27	240	59	15	387	1E	5	**91,99**
621579	28	245	66	15.8	440	1E	5	**96,80**
618336	30	260	66.1	15.8	518	1E	5	**101,57**
618337	32	275	71.4	17.6	620	1E	5	**114,56**

110/2VDEDPCB

Set de chei fixe simple izolate la1000 V in cutie de carton

UNIOR



612676	10 - 24 / 10	1200	1F	1	**580,97**

110/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 22, 24)

IREGA SWO 92 1000 V

Cheie reglabila cu deschidere marita izolata la 1000 V

- *material: otel crom vanadiu*
- *materialul izolator de pe maner indeplineste cerintele IEC 900 si EN-60900, in ce priveste rezistenta electrica si proprietatile mecanice*
- *fiecare cheie reglabila IREGA 92 1000V trece printr-un test de inalta tensiune, in conformitate cu Standardul EN-60900 Standard, echivalent IEC-900, si constand in expunerea la 10.000 V timp de 10 secunde, dupa care nu ar trebui sa existe nici o deteriorare a manerului*
- *cele trei straturi de plastisol in culori diferite permit utilizatorului sa verifice cu usurinta starea izolatiei*
- *SWO 92 1000V 6" deschidere marita 34 mm (1 3/8") cu 78% mai mare decat cheile reglabile standard (6"), dimensiuni similare; greutate redusa - 250 grame cu 68% mai usoara decat chei reglabile standard (12") cu deschidere similara*
- *SWO 92 1000V 8" deschidere marita 39 mm (1 1/2") cu 62% mai mare decat cheile reglabile standard (8"), dimensiuni similare; greutate redusa - 354 grame cu 54% mai usoara decat chei reglabile standard (12 "), care are deschidere mai mica*



	Dimensiune	Deschidere	Ambalare	
570313006005105	176 mm (6")	34 mm (1 3/8")	1	**302,16**
570313008005105	216 mm (8")	39 mm (1 1/2")	1	**330,59**

250/1VDEDP

Cheie reglabila izolata la 1000 V

- *material: crom vanadium*
- *acoperire cromare conform EN12540*
- *in concordanta cu standardul EN 60900:2004*

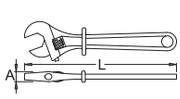
Avantaje:

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*
- *cu scala*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		L	A					
621917	150	165	35	23	182	1E	1	**104,83**
616849	200	215	35	28	355	1E	1	**129,59**
616850	250	265	35	32	579	1E	1	**157,22**
616851	300	310	36	38	871	1E	1	**197,94**
622065	380	390	35	50	1505	1E	1	**353,65**

180/2VDEDP

Cheie inelara simpla izolata la *1000 V*

- *material: crom vanadium*
- *cap:cromat in concordanta cu EN12540*
- *in concordanta cu standardul EN 60900:2004*

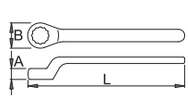
Avantaje:

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *controlul se face prin testare electrica*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		L	B	A				
621580	6	155	13.5	8.5	51	1E	10	**47,14**
621581	7	155	15	9	57	1E	10	**47,14**
621582	8	160	16.5	9.5	62	1E	10	**49,37**
621583	9	160	17.5	10	72	1E	10	**49,37**
612185	10	162	19.5	11	81	1E	10	**51,61**

		L	B	A				
612186	11	175	20	11.5	97	1E	10	**51,61**
612187	12	185	21.5	11.5	112	1E	10	**53,31**
612188	13	185	23	12.5	113	1E	10	**53,31**
612189	14	190	25.5	13	136	1E	10	**57,01**
612190	15	195	27	13.5	146	1E	10	**57,01**
621584	16	190	27.5	14.5	175	1E	10	**63,48**
612191	17	208	30.5	15.5	185	1E	10	**63,48**
621585	18	195	30	15.5	210	1E	10	**70,54**
612192	19	227	33	15.5	233	1E	10	**70,54**
621586	20	245	34.5	16.2	273	1E	5	**77,88**
619202	21	244	36.4	13.2	307	1E	5	**83,52**
612193	22	250	37.5	17.5	300	1E	5	**77,88**
621587	23	250	39.8	16.8	333	1E	5	**83,52**
612194	24	255	42	18.5	428	1E	5	**88,34**
621588	26	265	44	18	450	1E	5	**88,34**
621589	27	270	44.8	18	411	1E	5	**88,34**
621590	28	280	36.5	18.5	488	1E	5	**97,63**
621591	30	310	47	19	574	1E	5	**109,50**
621592	32	325	51.5	19.5	647	1E	5	**109,50**

180/2VDEDPCB

Set de chei inelare izolate la 1000 V in cutie de carton

UNIOR

1000V IEC 60900



612677	10 - 24 / 10	1820	1F	1	**624,16**

180/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 22, 24)

220/3LVDEDP

Chei locas hexagonal izolate la 1000 V

1000V IEC 60900

- *material:crom vanadium*
- *capul cheii este tratat in intregime*
- *in concordanta cu standardul EN 60900:2004*

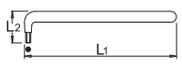
Avantaje:

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

Important

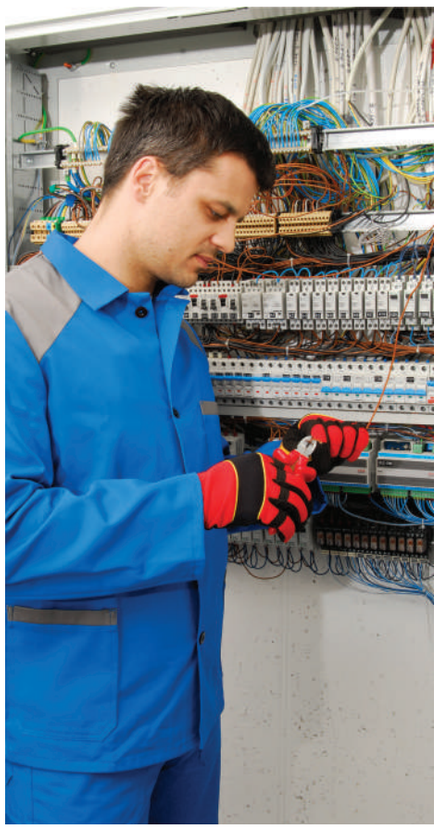
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		L1	L2				
619136	3	130	26	20	4B	10	**31,42**
619137	4	145	31	31	4B	10	**32,74**
619138	5	165	36	53	4B	10	**33,61**
619139	6	188	40	73	4B	10	**35,85**
619140	8	206	49	135	4B	10	**40,03**
619141	10	234	55	221	4B	10	**48,45**
619142	12	262	58	346	4B	10	**60,81**



196/2LVDEDP

Cap cheie tubulara izolata la 1000 V cu maner in T, varianta lunga

1000V IEC 60900

- *material:crom vanadium*
- *capul cheii este tratat in intregime*
- *cap:cromat in concordanta cu EN12540*
- *in concordanta cu standardul EN 60900:2004*

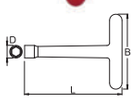
Avantaje:

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		L	B	D				
619143	10	300	160	20	439	1E	10	**94,18**
619150	11	300	160	21	460	1E	10	**95,34**
619151	12	300	160	24	495	1E	10	**109,84**
619152	13	300	160	24	492	1E	10	**112,71**
619153	14	300	160	27	422	1E	10	**116,50**
619154	17	300	160	30	640	1E	10	**135,33**
619155	19	300	160	32	757	1E	10	**127,21**
619156	20	300	160	34	737	1E	5	**146,32**
619157	21	300	160	34	772	1E	5	**153,86**
619158	22	300	160	34	806	1E	5	**151,87**
619159	23	300	160	45	780	1E	5	**159,65**
619160	24	300	160	45	875	1E	5	**172,98**

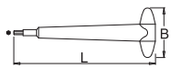
220TVDE

Chei in T izolate la 1000 V

1000V IEC 60900

- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*





UNIOR

		L	B				
619132	4	200	69	98	1E	10	**101,77**
619133	5	203	69	105	1E	10	**108,33**
619134	6	207	98	126	1E	10	**116,46**
619135	8	209	99	145	1E	10	**123,56**

220TVDE4PB

Set chei locas hexagonal T in cutie de plastic

1000V IEC 60900



UNIOR

621648	4 - 8 / 4	747	1F	1	**585,93**

220TVDE (4, 5, 6, 8)

238/2VDEDP

Capete chei tubulare 3/8" izolate la 1000 V

1000V IEC 60900

- *material:crom vanadium*
- *forjata, calire si revenire totala*
- *cap:cromat in concordanta cu EN12540*
- *in concordanta cu standardul EN 60900:2004*

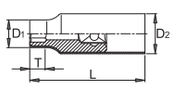
Avantaje:

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		D1	D2	L	T				
619161	10	18.7	23	46.5	10	26	4B	10	**38,53**
619162	11	20.7	23	46.5	10	40	4B	10	**38,82**
619163	12	21.8	23	46.5	10	40	4B	10	**39,11**
619164	13	23	23	46.5	10	43	4B	10	**39,40**
619165	14	24.9	23	46.5	14	50	4B	10	**40,57**
619166	17	28.6	23	49	15	70	4B	10	**43,20**
619167	19	31.4	23	49	17	74	4B	10	**46,65**
619168	22	35	23	51	17	104	4B	10	**52,44**

236/2HXVDEDP

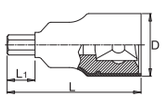
Capete chei tubulare cu profil hexagonal exterior de 3/8", izolate la 1000 V, dublu strat

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit:otel special de scule*
- *capul cheii este tratat in intregime*

Avantaje:
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

Important
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		L	L1	D				
619171	4	67	6	23.6	46	4B	10	**43,49**
619172	5	67	7.4	24.4	49	4B	10	**43,78**
619173	6	67	8.5	23.4	48	4B	10	**44,02**
619174	8	67	9.4	24	54	4B	10	**46,65**
619175	10	67	10.2	23.4	70	4B	10	**47,82**

238.1AVDEDP

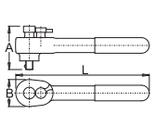
Antrenor cu clichet reversibil 3/8" izolat la 1000 V

- *material:compozitie speciala pentru calire revenire*
- *Buton de schimbare sens*
- *in concordanta cu standardul EN 60900:2004*

Avantaje:
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *cu 36 dinti*
- *unghiul minim de rotatie 10°*
- *100% control - fiecare piesa este testata*

Important
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		L	B	A				
619118	3/8"	200	72	42	375	1E	1	**395,00**

238.4/2VDEDP

Prelungitor izolat la 1000 V, 3/8"

- *material:crom vanadium*
- *forjata, calire si revenire totala*
- *cap:cromat in concordanta cu EN12540*
- *in concordanta cu standardul EN 60900:2004*

Avantaje:
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

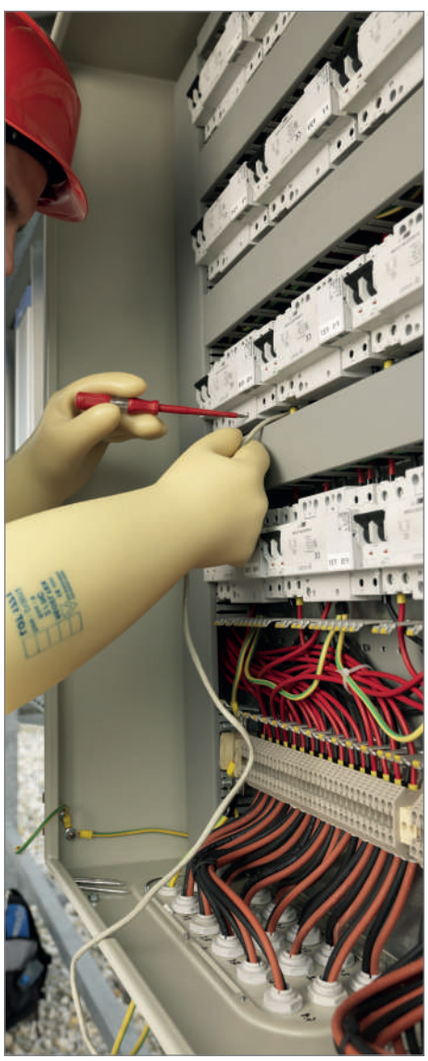
Important
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

			L	D				
619169	3/8"	125	144	17	151	4B	10	**56,53**
619170	3/8"	250	268	17	281	4B	10	**79,97**



239VDEDP6P10

Trusa capete chei tubulare 3/8" izolate la 1000 V in cutie de plastic

- *Dimensiunea cutiei : 244 x 207 x 59*





UNIOR

621647	10	1420	1G	1	**930,19**

238/2VDEDP (10, 11, 12, 13, 14, 17, 19),
238.4/2VDEDP (3/8" x 125, 3/8" x 250),
238.1AVDEDP (3/8"),

239VDEDP6P13

Trusa capete chei tubulare 3/8" izolate la 1000 V in cutie metalica

- *Dimensiunea cutiei : 448 x 198 x 54*



UNIOR

619419	13	3165	1G	1	**1367,70**

238.1AVDEDP (3/8"),
238.4/2VDEDP (3/8" x 125, 3/8" x 250),
196/2BVDEDP (3/8"), **238/2VDEDP** (10, 11, 13, 14, 17, 19), **236/2HXVDEDP** (4, 5, 6)

190/2VDEDP

Cap cheie tubulara 1/2" izolat la 1000 V

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *cap: cromat in concordanta cu EN12540*
- *in concordanta cu standardul EN 60900:2004*

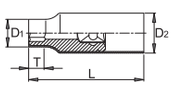
Avantaje:

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		D1	D2	L	T				
617803	8	18	27.4	54.6	12	65	4B	10	**47,82**
621593	9	51.5	17.1	26.5	12	74	4B	10	**48,40**
612195	10	18	26	51.5	12	72	4B	10	**48,69**
612196	11	19.5	26.5	51.5	12	75	4B	10	**48,69**
612197	12	20.5	26.5	51.5	12	74	4B	10	**48,99**
612198	13	21.5	26.5	51.5	12	77	4B	10	**49,28**
612199	14	22.5	26.5	51.5	12	75	4B	10	**49,28**
621594	15	51.5	23.5	26.5	12	78	4B	10	**49,28**
621595	16	51.5	26	25.2	12	82	4B	10	**49,57**
612200	17	28	26	51.5	12	83	4B	10	**49,86**
621596	18	51.5	28.5	26.5	12	94	4B	10	**51,56**
612201	19	30	28	51.5	14	96	4B	10	**53,90**
621597	20	51.5	31.3	27.3	14	106	4B	10	**53,90**
621598	21	51.5	32.5	28.2	14	115	4B	10	**56,53**
612202	22	34	29	51.5	14	108	4B	10	**59,69**
621599	23	53.5	35.1	29.4	14	132	4B	10	**60,85**
612203	24	37	32.5	55	16	158	4B	10	**63,48**
621600	26	55.5	38.8	33.2	16	173	4B	10	**66,64**
617804	27	40.5	32.5	58	18	176	4B	10	**69,56**
621601	28	56.5	41.3	33.4	20	195	4B	10	**70,73**
621602	30	59.5	44	37.1	22	247	4B	10	**83,47**
621603	32	59.5	46.6	39.4	22	284	4B	10	**86,05**



FR350

Cap cheie tubulara 1/2" izolat la 1000 V

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *cap:cromat in concordanta cu EN12540*
- *in concordanta cu standardul EN 60900:2004*

Avantaje:

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*



FRIEDRICH Sicherheitswerkzeuge

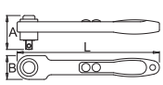
	Dimensiune	Ø mm	
350082	8	60	**75,97**
350099	9	58	**75,97**
350105	10	60	**75,97**
350112	11	63	**75,97**
350129	12	64	**75,97**
350136	13	64	**75,97**
350143	14	67	**76,74**
350150	15	63	**76,74**
350167	16	69	**77,67**
350174	17	74	**77,67**
350181	18	91	**77,67**
350198	19	83	**77,67**
350204	20	101	**85,68**
350211	21	107	**85,68**
350228	22	114	**85,68**
350235	23	118	**85,68**
350242	24	117	**89,84**
350266	26	138	**96,00**
350273	27	181	**96,00**
350280	28	185	**97,24**
350303	30	195	**97,24**
350327	32	200	**98,93**

190.1VDE

Antrenor cu clichet reversibil 1/2" izolat la 1000 V

- *material: crom vanadium*
- *cu 36 dinti*
- *unghiul minim de rotatie 10°*
- *Buton de schimbare sens*
- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*





UNIOR

		L	B	A				
612206	1/2"	275	46	66	553	4B	1	**487,47**

190/2LVDEDP

Cap cheie tubulara lunga 1/2" izolat la 1000 V

- *material:crom vanadium*
- *forjata, calire si revenire totala*
- *cap:cromat in concordanta cu EN12540*
- *in concordanta cu standardul EN 60900:2004*

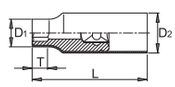
Avantaje:

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		L	D1	D2	T				
619104	10	96	20.7	27	27	116	4B	5	**61,73**
619105	11	96	21.6	27	27	116	4B	5	**61,73**
619106	12	96	22.6	27	27	123	4B	5	**62,02**
619107	13	96	23.3	27	27	127	4B	5	**62,02**
619108	14	96	25.8	27	35	134	4B	5	**62,31**
619109	15	96	26.8	27	35	132	4B	5	**62,90**
619110	16	96	27.4	27	35	143	4B	5	**62,90**
619111	17	96	30	27	35	151	4B	5	**63,48**
619112	18	96	31.7	27	35	174	4B	5	**63,48**
619113	19	96	32	27	35	170	4B	5	**64,89**
619114	20	96	33.4	27	35	200	4B	5	**66,64**
619115	21	96	33	27	35	188	4B	5	**66,94**
621604	22	96	33.6	29.6	35	213	4B	1	**70,15**
621605	24	96	35.6	31.6	35	238	4B	1	**73,31**

FR361

Antrenor cu clichet reversibil izolat la 1000 V

- *material:crom vanadium*
- *cu 36 dinti*
- *unghiul minim de rotatie 10°*
- *buton de schimbare sens*
- *in concordanta cu standardul EN 60900:2004*



FRIEDRICH Sicherheitswerkzeuge

		L		
361903	1/2"	280	537	**582,76**

192/2HXVDEDP

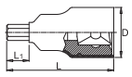
Cap cheie tubulara cu cap hexagonal 1/2" izolata la 1000 V

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit:otel special de scule*
- *capul cheii este tratat in intregime*

Avantaje:
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

Important
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		L	L1	D				
615173	4	76	18	27	76	4B	10	55,07
615174	5	76	18	27	73	4B	10	55,94
615175	6	76	18	27	80	4B	10	56,53
615176	8	76	18	27	96	4B	10	58,52
615177	10	76	18	27	110	4B	10	59,69

190.1AVDEDP

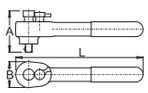
Antrenor cu clichet reversibil 1/2" izolat la 1000 V

- *material: crom vanadiu*
- *Buton de schimbare sens*
- *in concordanta cu standardul EN 60900:2004*

Avantaje:
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *cu 36 dinti*
- *unghiul minim de rotatie 10°*
- *controlul se face prin testare electrica*

Important
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		L	B	A				
619119	1/2"	245	50	80	667	1E	1	461,93

FR360

Antrenor cu clichet reversibil izolat la 1000 V

- *material: crom vanadium*
- *unghiul minim de rotatie 10°*
- *buton de schimbare sens*
- *in concordanta cu standardul EN 60900:2004*



FRIEDRICH Sicherheitswerkzeuge

		L		
360494	*1/2"*	*260*	*668*	576,79

190.4/2VDEDP

Prelungitor 1/2"izolat la 1000 V

- *material: crom vanadium*
- *forjata, calire si revenire totala*
- *cap: cromat in concordanta cu EN12540*
- *in concordanta cu standardul EN 60900:2004*

Avantaje:
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

Important
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

		L	D				
612205	1/2"	125	27	209	4B	10	89,85
612204	1/2"	250	28	380	4B	10	113,00

FR375

Prelungitor 1/2"izolat la 1000 V

- *material: crom vanadium*
- *forjata, calire si revenire totala*
- *cap: cromat in concordanta cu EN12540*
- *in concordanta cu standardul EN 60900:2004*

Avantaje:
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*



FRIEDRICH Sicherheitswerkzeuge

		L		
375139	1/2"	125	206	216,05

190.5/2VDEDP

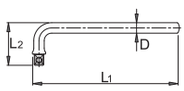
Antrenor articulat cu maner 1/2" izolat la 1000 V

- *material:crom vanadium*
- *forjat, tratat complet*
- *acoperire cromare conform EN12540*
- *in concordanta cu standardul EN 60900:2004*

Avantaje:
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

Important
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

	L1	L2				
615178	250	72	408	1E	10	98,51

FR370

Antrenor T 1/2"izolat la 1000 V

- *material: crom vanadium*
- *forjata, calire si revenire totala*
- *cap: cromat in concordanta cu EN12540*
- *in concordanta cu standardul EN 60900:2004*

Avantaje:
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*



FRIEDRICH Sicherheitswerkzeuge

		L		
370493	1/2"	200	453	230,13

190VDE6P11A

Set de capete chei tubulare izolate la 1000 V in cutie metalica

- *Dimensiunea cutiei : 321 x 198 x 54*



UNIOR

612678	10 - 24 / 11	2620	1G	1	1201,34

190/2VDEDP (10, 11, 12, 13, 14, 17, 19, 22, 24), **190.1VDE** (1/2"), **190.4/2VDEDP** (1/2" x 125)

190VDE6P11

Set capete chei tubulare izolate la 1000 V si accesorii 1/2" in cutie metalica

- *Dimensiunea cutiei : 448 x 198 x 54*



UNIOR

616704	11	2650	1G	1	1237,29

190/2VDEDP (13, 14, 17, 19), **192/2HXVDEDP** (4, 5, 6, 8, 10), **190.1VDE** (1/2"), **190.4/2VDEDP** (1/2" x 125)

190VDEDP6P13B

Capete chei tubulare 1/2" izolate la 1000 V in cutie metalica

- *Dimensiunea cutiei : 321 x 198 x 54*



UNIOR

619420	8 - 27 / 13	3096	1G	1	1293,18

190/2VDEDP (8, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27),
190.1AVDEDP (1/2"), **190.4/2VDEDP** (1/2" x 125)

190VDE12P11L

Capete chei tubulare lungi 1/2" izolate la 1000 V in cutie metalica

- *Dimensiunea cutiei : 448 x 198 x 54 mm*



UNIOR

625166	10 - 24 / 11	2620	1G	1	1394,78

190/2LVDEDP (10, 11, 12, 13, 14, 17, 19, 22, 24),
190.1AVDEDP (1/2"), **190.4/2VDEDP** (1/2" x 125)

190VDE6P10

Set capete chei tubulare izolate la 1000 V in cutie de plastic

- *Dimensiunea cutiei : 307 x 260 x 70*



UNIOR

621646	13 - 27 / 10	2400	1F	1	1198,90

190/2VDEDP (13, 14, 17, 19, 22, 24, 27),
190.1VDE (1/2"),
190.4/2VDEDP (1/2"x125, 1/2"x250),
981PBM2 (307 x 260 x 74)

FR100

Cleste combinat din plastic izolat la 1000V poliamida 2K

- *realizat din doua componente din plastic*
- *fara parti metalice*
- *ranforsat cu fibra de sticla*
- *domeniu de temperatura: pana la -40°C*
- *clasa C*
- *falci zimtate*



FRIEDRICH Sicherheitswerkzeuge

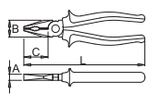
Dimensiune		
FR100540	180	148,55

406/1VDEBI

Cleste combinat izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5746 si EN 60900:2004*





UNIOR

	L	B	C	A				
610421	160	24	35	9.5	224	4B	1	83,47
610422	180	27	38	10	274	4B	1	86,93
610423	200	29	41	10.5	344	4B	1	93,64
610424	220	32	47	11	424	4B	1	110,72

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² Ø	max 650 N/mm² Ø
610421	160	1,6	2,0
610422	180	1,8	2,5
610423	200	2,0	2,5
610424	220	2,0	3,0

406/1VDEDP

Cleste combinat izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul ISO 5746 si EN 60900:2004*

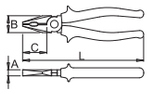
Avantaje:

- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

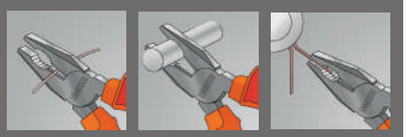
	L	B	C	A				
619177	140	23	32	8	157	4B	1	104,05
619178	160	24	35	9.5	219	4B	1	101,86
619179	180	27	38	10	269	4B	1	104,59
619180	200	29	41	10.5	321	4B	1	107,60
619181	220	32	47	11	376	4B	1	118,30

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² Ø	max 650 N/mm² Ø
619177	140	1,6	2,0
619178	160	1,6	2,0
619179	180	1,8	2,5
619180	200	2,0	2,5
619181	220	2,0	3,0

CARACTERISTICI

406/1VDEBI, 406/1VDEDP



FR100

Cleste combinat complet izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *unghiul de deschidere limitat la 30°*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul EN 60900:2004 si DIN ISO 5746*



FRIEDRICH Sicherheitswerkzeuge

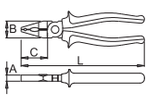
	L	Ø mm		
FR100199	190	2,3	320	**305,87**
FR100205	210	2,8	380	**326,98**

420/1VDEBI

Cleste combinat cu gaura izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul EN 60900:2004*





UNIOR

	L	B	C	A				
610425	180	24	45	11	241	4B	1	**120,93**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	Ø	max 650 N/mm²	Ø
610425	180	1,8		2,5	

420/1VDEDP

Cleste combinat cu gaura izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul EN 60900:2004*

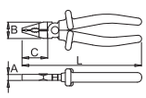
Avantaje:

- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

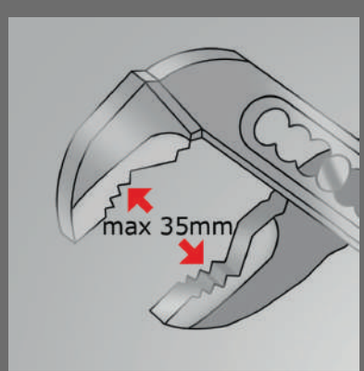
	L	B	C	A				
619176	180	24	45	11	221	4B	1	**103,76**

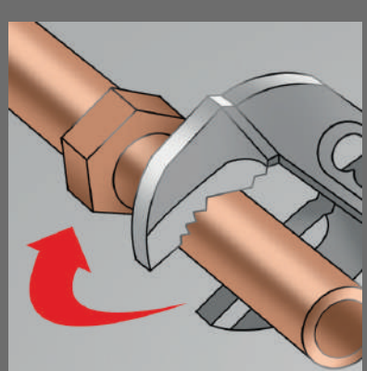
capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	Ø	max 650 N/mm²	Ø
619176	180	1,8		2,5	

CARACTERISTICI

447/1VDEBI, 447/1VDEDP





447/1VDEBI

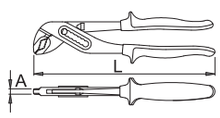
Cleste reglabil izolati la 1000 V

- *material: crom vanadium*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 8976 si EN 60900:2004*

Avantaje:

- *deschiderea falcii reglabila in 7 pozitii*
- *forma speciala cu crestatura previne strivirea degetelor intre brate*





UNIOR

	L	A					
611993	240	6.5	35	367	4B	1	**123,61**

447/1VDEDP

Cleste reglabil pentru instalatii izolat la 1000 V

- *material: crom vanadium*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *finisare: cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul ISO 8976 si EN 60900:2004*

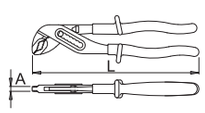
Avantaje:

- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *deschiderea falcii reglabila in 7 pozitii*
- *forma speciala cu crestatura previne strivirea degetelor intre brate*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

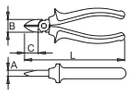
	L	A					
619199	240	6.5	35	382	4B	1	**99,72**

461/1VDEBI

Cleste tais lateral izolat la 1000 V

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5749 si EN 60900:2004*





UNIOR

	L	B	A	C				
610426	140	19	9.5	18	169	4B	1	**87,71**
610427	160	22.5	10	22	214	4B	1	**90,82**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
610426	140	1,6		2,0	
610427	160	1,6		2,5	

461/1VDEDP

Cleste tais lateral izolat la 1000 V

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul ISO 5749 si EN 60900:2004*

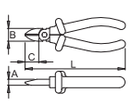
Avantaje:

- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

	L	B	A	C				
619193	140	19	9.5	18	174	4B	1	**93,88**
619194	160	22.5	10	22	224	4B	1	**101,86**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
619193	140	1,6		2,0	
619194	160	1,6		2,5	

CARACTERISTICI

461/1VDEBI, 461/1VDEDP







FR200

Cleste tais lateral complet izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *unghiul de deschidere limitat la 30°*
- *finisare: cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul ISO 5749 si EN 60900:2004*



FRIEDRICH Sicherheitswerkzeuge

	L	Ø mm		
FR200165	160	2,0	230	**293,24**
FR200189	18	2,5	320	**321,31**

462/1VDEBI

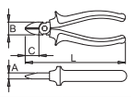
Cleste multifunctional cu tais lateral izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul EN 60900:2004*

Avantaje:

- *Cleste dezizolator cabluri simple de sectiune 1.5 mm² pana la 2.5 mm²*





UNIOR

	L	B	A	C				
624060	160	22,5	10	22	214	4B	10	**101,33**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
624060	160	1,6		2,5	

462/1VDEDP

Cleste multifunctional cu tais lateral izolat la 1000 V

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul EN 60900:2004*

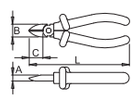
Avantaje:

- *Cleste dezizolator cabluri simple de sectiune 1.5 mm² pana la 2.5 mm²*
- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

	L	B	A	C				
624061	160	22,5	10	22	224	4B	10	**108,87**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
624061	160	1,6		2,5	

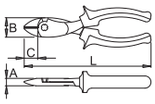


466/1VDEBI

Cleste tais lateral pentru conditii grele izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5749 si EN 60900:2004*





UNIOR

	L	B	A	C				
610428	180	28	11	20	316	4B	1	**114,80**
611756	200	27	11	21	344	4B	1	**130,27**

capacitatea de taiere (10N=1kg)

	L	max 2150 N/mm²	ØT	max 650 N/mm²	ØT
610428	180	1,8		3,0	
611756	200	2,0		3,5	

466/1VDEDP

Cleste tais lateral pentru conditii grele izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul ISO 5749 si EN 60900:2004*

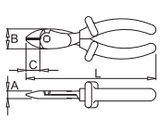
Avantaje:

- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

	L	B	A	C				
619195	180	28	11	20	303	4B	1	**104,05**
619196	200	27	11	21	351	4B	1	**118,30**

capacitatea de taiere (10N=1kg)

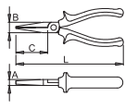
	L	max 2150 N/mm²	ØT	max 650 N/mm²	ØT
619195	180	1,8		3,0	
619196	200	2,0		3,5	

472/1VDEBI

Clesti cu varfuri late izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*





UNIOR

	L	B	C	A				
610430	160	16	49	9	146	4B	1	**78,80**

472/1VDEDP

Clesti cu varfuri late izolat la 1000 V

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*

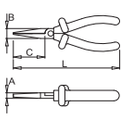
Avantaje:

- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *partea de prindere dintata*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*



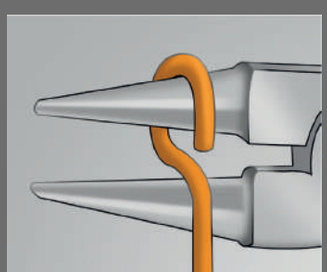


UNIOR

	L	B	C	A				
619182	140	15	39	8	114	4B	1	**84,30**
619183	160	16	49	9	153	4B	1	**88,14**

CARACTERISTICI

476/1VDEBI, 476/1VDEDP



FR100

Cleste din plastic pentru telefonie izolat la 1000V poliamida 2K

- *realizat din doua componente din plastic*
- *fara parti metalice*
- *ranforsat cu fibra de sticla*
- *domeniu de temperatura: pana la -40°C*
- *clasa C*
- *falci zimtate*



FRIEDRICH Sicherheitswerkzeuge

	Dimensiune	
FR100502	220	**150,55**

476/1VDEBI

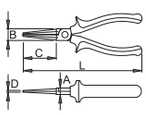
Clesti cu varfuri rotunde izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*

Avantaje:

- *varfurile lungi asigura prinderea sarmei in locurile cele mai dificile*
- *posibilitati mici de deteriorare a sarmei*





UNIOR

	L	B	A	C	D				
610431	140	15	9	39	2	116	4B	1	**75,40**
610432	160	16	10	49	2.5	126	4B	1	**81,82**

476/1VDEDP

Cleste cu varfuri rotunde izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*

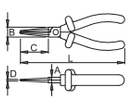
Avantaje:

- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *varfurile lungi asigura prinderea sarmei in locurile cele mai dificile*
- *posibilitati mici de deteriorare a sarmei*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

	L	B	A	C	D				
619184	140	15	9	39	2	114	4B	1	**86,20**
619185	160	16	10	49	2.5	139	4B	1	**89,21**

506/1VDEBI

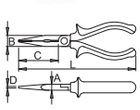
Cleste cu varfuri semirotunde si tais izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*

Avantaje:

- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*
- *partea de prindere dintata*





UNIOR

	L	B	D	A	C				
610434	140	15	2	8	39	115	4B	1	**78,80**
610435	160	16	2.5	9	49	137	4B	1	**88,63**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
610434	140	1,6		2,0	
610435	160	1,6		2,0	

506/1VDEDP

Cleste cu varfuri rotunde si tais izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*

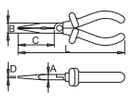
Avantaje:

- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*
- *partea de prindere dintata*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

	L	B	D	A	C				
619187	140	15	8	8	39	125	4B	1	**95,00**
619188	160	16	2.5	9	49	157	4B	1	**94,18**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
619187	140	1,6		2,0	
619188	160	1,6		2,0	

508/1VDEBI

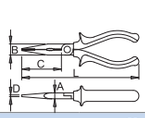
Cleste cu varfuri semirotunde si tais lateral izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*

Avantaje:

- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*
- *partea de prindere dintata*





UNIOR

	L	B	D	A	C				
610436	170	17	2.5	9	61	156	4B	1	**104,15**
610437	200	17	2.5	9	77	191	4B	1	**108,48**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
610436	170	1,6		2,0	
610437	200	1,8		2,5	

508/1VDEDP

Cleste cu varfuri semirotunde si tais izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*

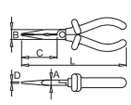
Avantaje:

- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*
- *partea de prindere dintata*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

	L	B	D	A	C				
619189	170	17	2.5	9	61	162	4B	1	**100,50**
619190	200	17	2.5	9	77	201	4B	1	**104,59**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
619189	170	1,6		2,0	
619190	200	1,8		2,5	

512/1VDEBI

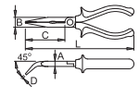
Cleste cu varfuri semirotunde indoite si tais izolat 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul EN 60900:2004*

Avantaje:

- *varfurile lungi si indoite asigura prinderea sigura si precisa a suruburilor si piulitelor.*
- *falcile puternice asigura o strangere buna*
- *varfuri-semirotunde indoite la 45 de grade*
- *partea de prindere dintata*





UNIOR

	L	B	D	A	C				
610438	170	17	2.5	9	61	152	4B	1	**113,68**
610439	200	17	2.5	9	77	204	4B	1	**119,33**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	ØT	max 650 N/mm²	ØT
610438	170	1,6		2,0	
610439	200	1,8		2,5	

512/1VDEDP

Cleste cu varfuri semirotunde indoite izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul EN 60900:2004*

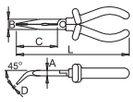
Avantaje:

- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *varfurile lungi si indoite asigura prinderea sigura si precisa a suruburilor si piulitelor.*
- *falcile puternice asigura o strangere buna*
- *varfuri-semirotunde indoite la 45 de grade*
- *partea de prindere dintata*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





UNIOR

	L	B	D	A	C				
619191	170	17	2.5	9	61	156	4B	1	**104,59**
619192	200	17	2.5	9	77	201	4B	1	**110,62**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ØT	max 650 N/mm² ØT
619191	170	1,6	2,0
619192	200	1,8	2,5

580/1VDEBI

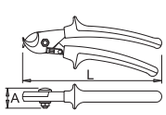
Foarfeca penrtru cabluri izolata la 1000 V

- *material:compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul EN 60900:2004*

Important

- *pentru taierea cablurilor fara inima de otel*





UNIOR

	L	A					
610440	170	18	10	339	4B	1	**173,03**
610441	230	22	17	444	4B	1	**197,45**

580/1VDEDP

Foarfeca pentru cabluri izolata la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul EN 60900:2004*

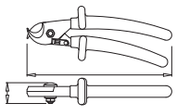
Avantaje:

- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *pentru taierea cablurilor fara inima de otel*





UNIOR

	L	A					
619197	170	18	10	226	4B	1	**128,91**
619198	230	22	17	409	4B	1	**145,50**



FR1135

Foarfeca multifunctionala pentru electricieni

- *material: otel inoxidabil*
- *falci tratate prin inductie*



FRIEDRICH Sicherheitswerkzeuge

	L		
FR113533	190	125	**103,87**

FR1147

Foarfeca pentru taiat cabluri

- *material: otel inoxidabil*
- *pentru cabluri din materiale moi, cupru si aluminiu*



FRIEDRICH Sicherheitswerkzeuge

	L	Ø mm		
FR114738	160	10	195	**95,32**

FR502504

Cleste cu clichet de taiat cabluri

- *datorita transmisiei parghiei de actionare se pot taia usor diametre mari*
- *falci de taiere interschimbabile*
- *pentru cabluri cupru si aluminiu, nearmate*



FRIEDRICH Sicherheitswerkzeuge

	L	Ø mm		
FR502504	400	55	1530	**1763,02**

FR492324

Cleste cu clichet de taiat cabluri

- *datorita transmisiei parghiei de actionare se pot taia usor diametre mari*
- *falci de taiere interschimbabile*
- *pentru cabluri cupru si aluminiu, nearmate*



FRIEDRICH Sicherheitswerkzeuge

	L	Ø mm		
FR492324	250	32	640	**916,62**

FR499323

Cleste cu clichet pentru taiat cabluri, izolat la 1000V

- *Standard: IEC 60900:2004*



	L	Ø mm		
FR499323	250	32	800	**1088,36**

FR499507

Cleste cu clichet pentru taiat cabluri, izolat la 1000V

- *Standard: IEC 60900:2004*



	L	Ø mm		
FR499507	270	50	960	**1620,74**

FR499620

Cleste cu clichet pentru taiat cabluri, izolat la 1000V

- *Standard: IEC 60900:2004*
- *deschidere frontala, cutit ranforsat*
- *realizat din otel special,*
- *clestele se poate deschide in toate pozitiile.*



	L	Ø mm		
FR499620	410	62	2060	**7142,59**

FR509329

Cleste cu clichet pentru taiat cabluri, izolat la 1000V

- *Standard: IEC 60900:2004*



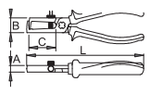
	L	Ø mm		
FR509329	400	55	1680	**2002,00**

478/1VDEBI

Clesti pentru dezizolat frontal izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *capacitatea de dezizolare de la 1, 6-10 mm²*
- *arc de redeschidere*
- *in conformitate cu standardul EN 60900:2004*





	L		B	A	C				
610433	160	0.6-10	18	9	40	178	4B	1	**91,70**

478/1VDEDP

Clesti pentru dezizolat frontal izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *capacitatea de dezizolare de la 1, 6-10 mm²*
- *in conformitate cu standardul EN 60900:2004*

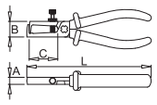
Avantaje:

- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *arc de redeschidere*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





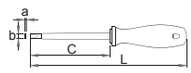
	L		B	A	C				
619186	160	0.6-10	18	9	40	167	4B	1	**120,54**

603VDE

Surubelnita profil lat cu lama izolata la 1000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul EN 60900:2004*





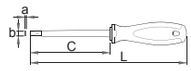
	a x b	C	L				
616470	0.4 x 2.5	75	160	33	4B	10	**12,60**
616471	0.5 x 3.0	100	185	37	4B	10	**13,96**
616472	0.6 x 3.5	100	185	39	4B	10	**14,64**
616473	0.8 x 4.0	100	185	43	4B	10	**16,20**
616474	1.0 x 5.5	125	225	75	4B	10	**21,06**
616475	1.2 x 6.5	150	260	113	4B	10	**23,93**
616476	1.2 x 8.0	175	295	163	4B	5	**26,66**
616477	1.6 x 10.0	200	320	115	4B	5	**34,93**

603VDETBI

Surubelnita profil lat cu lama izolata la 1000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul EN 60900:2004*





	a x b	C	L				
616436	0.4 x 2.5	75	160	33	4B	10	**18,24**
616437	0.5 x 3.0	100	185	37	4B	10	**18,58**
616438	0.6 x 3.5	100	185	39	4B	10	**20,77**
616439	0.8 x 4.0	100	185	43	4B	10	**21,55**
621247	1.0 x 4.5	125	225	75	4B	10	**27,39**
616440	1.0 x 5.5	125	225	75	4B	10	**27,44**
616441	1.2 x 6.5	150	260	113	4B	10	**32,98**
616442	1.2 x 8.0	175	295	163	4B	5	**37,07**
621248	1.6 x 10.0	200	320	115	4B	5	**49,72**

604VDETBI

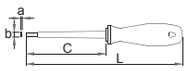
Surubelnita slim cu profil lat cu lama izolata la 1000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul EN 60900:2004*

Avantaje:

- *model cu lama subtire*
- *desi are lama subtire, surubelnita poseda aceleasi functionalitati si confera aceeasi siguranta in lucru ca o surubelnita izolata standard.*
- *lama subtire ii permite lucrul in locuri greu accesibile*





UNIOR

	a x b	C	L				
624063	0,6 x 6,5	100	185	39	4B	10	**32,25**
624064	0,8 x 4,0	100	185	43	4B	10	**33,76**
624065	1,0 x 5,5	125	225	75	4B	10	**36,48**
624066	1,2 x 6,5	150	260	113	4B	5	**40,67**

611VDETBI

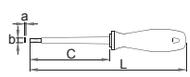
Surubelnita slim cu profil combinat lat / Phillips cu lama izolata la 1000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul EN 60900:2004*

Avantaje:

- *model cu lama subtire*
- *desi are lama subtire, surubelnita poseda aceleasi functionalitati si confera aceeasi siguranta in lucru ca o surubelnita izolata standard.*
- *lama subtire ii permite lucrul in locuri greu accesibile*





UNIOR

	+	C	L				
624071	SLPH 1	80	180	60	4B	10	**37,51**
624072	SLPH 2	100	210	94	4B	10	**38,77**

614VDETBI

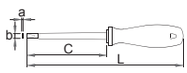
Surubelnita slim cu profil Phillips cu lama izolata la 1000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*

Avantaje:

- *model cu lama subtire*
- *desi are lama subtire, surubelnita poseda aceleasi functionalitati si confera aceeasi siguranta in lucru ca o surubelnita izolata standard.*
- *lama subtire ii permite lucrul in locuri greu accesibile*





UNIOR

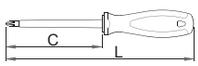
	+	C	L				
624067	PH 1	80	180	60	4B	10	**35,22**
624068	PH 2	100	210	94	4B	10	**37,51**

613VDETBI

Surubelnita profil Phillips cu lama izolata la 1000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*





UNIOR

	+	C	L				
616443	PH0	60	145	34	4B	10	**18,24**
616444	PH1	80	180	60	4B	10	**23,45**
616445	PH2	100	210	94	4B	10	**28,70**
616446	PH3	150	270	104	4B	5	**37,70**
616447	PH4	200	320	230	4B	5	**46,60**

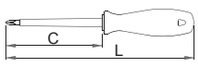


613VDE

Surubelnita profil Phillips cu lama izolata la 1000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*





UNIOR

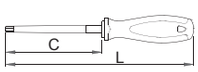
	+	C	L				
616478	PH0	60	145	34	4B	10	**13,47**
616479	PH1	80	165	60	4B	10	**16,00**
616480	PH2	100	200	94	4B	10	**21,99**
616481	PH3	150	260	104	4B	5	**28,60**

620VDETBI

Surubelnita profil hexagonal cu lama izolata la 10000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul EN 60900:2004*





UNIOR

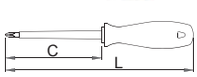
	⬢	C	L				
616448	2.5	75	160	34	4B	10	**32,25**
616449	3	75	175	37	4B	10	**35,71**
616450	4	75	175	68	4B	10	**39,74**
616451	5	75	185	93	4B	10	**47,72**
616452	6	100	210	128	4B	10	**55,31**
616453	8	100	210	203	4B	5	**75,74**

623VDE

Surubelnita profil Pozidrive cu lama izolata la 1000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*





UNIOR

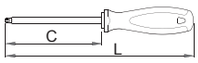
	✚	C	L				
616482	PZ0	60	145	34	4B	10	**14,64**
616483	PZ1	80	165	60	4B	10	**17,32**
616484	PZ2	100	200	93	4B	10	**23,50**
616485	PZ3	150	260	156	4B	5	**29,87**

621VDETBI

Surubelnite profil TORX® cu lama izolata la 1000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul EN 60900:2004*





UNIOR

		C	L				
616454	TX 10	60	140	35	4B	10	**23,16**
616455	TX 15	80	180	37	4B	10	**25,44**
616456	TX 20	80	180	43	4B	10	**26,80**
616457	TX 25	80	180	63	4B	10	**32,69**
616458	TX 27	100	210	76	4B	10	**36,05**
616459	TX 30	100	210	98	4B	10	**42,61**

624VDETBI

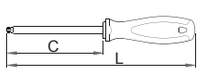
Surubelnita slim cu profil Pozidrive cu lama izolata la 1000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*

Avantaje:

- *model cu lama subtire*
- *desi are lama subtire, surubelnita poseda aceleasi functionalitati si confera aceeasi siguranta in lucru ca o surubelnita izolata standard.*
- *lama subtire ii permite lucrul in locuri greu accesibile*





UNIOR

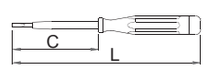
		C	L				
624069	PZ 1	80	180	60	4B	10	**35,85**
624070	PZ 2	100	210	93	4B	10	**38,33**

630VDE

Surubelnita detectoare 220-250 V

- *dimensiune 140 cu agatatoare*





UNIOR

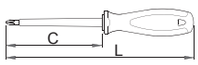
		a x b	C	L				
617659	0.5 x 3.0	60	140	13	4A	10	**9,58**
617660	0.6 x 3.5	90	180	24	4A	10	**12,99**

623VDETBI

Surubelnita profil Pozidrive cu lama izolata la 1000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*





UNIOR

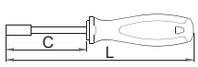
		C	L				
616460	PZ0	60	145	34	4B	10	**18,78**
616461	PZ1	80	180	60	4B	10	**24,13**
616462	PZ2	100	210	93	4B	10	**29,67**
616463	PZ3	150	270	156	4B	5	**37,99**

629VDETBI

Surubelnite cap tubular izolat la 1000 V

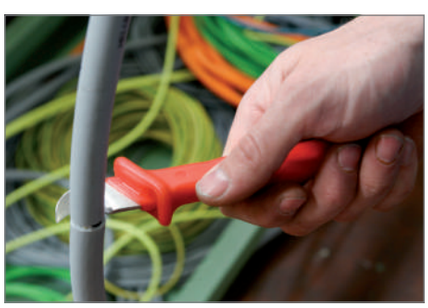
- *lama: otel crom vanadium molibden tratata integral*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul EN 60900:2004*
- *Fabricat conform standard DIN 3125*





UNIOR

		C	L				
616464	5.5	125	225	103	4B	10	**71,12**
616465	6	125	225	103	4B	10	**71,99**
616466	7	125	235	123	4B	5	**76,57**
616467	8	125	235	140	4B	5	**77,88**
623341	9	125	235	124	4B	5	**81,77**
616468	10	125	235	157	4B	5	**83,72**
623342	11	125	235	159	4B	5	**101,77**
616469	13	125	245	186	4B	5	**109,74**



385BVDE



Incizati in jurul firului



Taiati firul in lung



Dezizolati firul

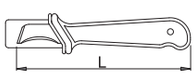


385BVDE

Cutter izolat la 1000 V

- *lama din otel carbon aliat*
- *maner de plastic*
- *cu protectie a lamei*
- *cutit electrician cu manson de protectie lama*





UNIOR

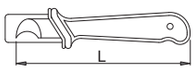
	L				
619102	180	80	4B	10	**244,88**

385VDE

Cutter izolat la 1000 V

- *lama din otel carbon aliat*
- *maner de plastic*
- *cu protectie a lamei*



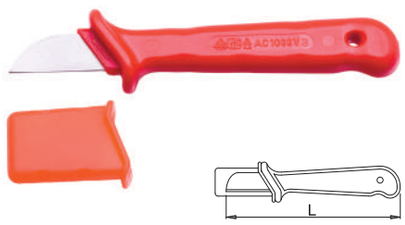


	L				
615494	180	76	4B	10	73,21

385AVDE

Cutter izolat la 1000 V

- *lama din otel carbon aliat*
- *maner de plastic*
- *cu protectie a lamei*



	L				
619101	180	78	4B	10	76,52

385CVDEDP

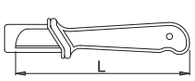
Cutter izolat la 1000 V

- *lama din otel carbon aliat*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *acoperire prin brunare conform cu standardul DIN 12476*
- *cu protectie a lamei*
- *duritate lama de minim 55 HRc*
- *lama curbata, cu lungimea de 60 mm*
- *maner ergonomic, cu garda anti-alunecare*
- *maner cu suport deget pentru o buna transmisie a fortei*
- *materialul lamei de otel asigura o acuratete maxima si durabilitate la dezizolarea cablurilor*
- *lama protejată cu teaca din PVC*

Utilizare

- *pentru dezizolarea cablurilor acoperite cu izolatie PVC*





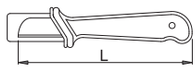
	L				
625610	220	180	4B	10	101,99

FR143103

Cutter izolat la 1000 V

- *lama din otel inoxidabil*
- *turnat prin injectie*
- *cu pliere de protectie a lamei*
- *lame interschimbabile*





	L		
FR143103	185	70	207,51

750VDEDP

Rama bomfaier 300 mm izolata la 1000 V

- *in concordanta cu standardul SR EN 60900:2005*

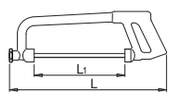
Avantaje:

- *dublu strat-doua culori distincte care asigura o protectie suplimentara.Cand al doilea strat devine vizibi se inlocuieste scula cu una noua*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





	L	L1			
619098	460	270	815	1E 1	450,74

FR440301

Rama bomfaier 300 mm izolata la 1000 V

- *in concordanta cu standardul SR EN 60900:2005*

Avantaje:

- *dublu strat-doua culori distincte care asigura o protectie suplimentara.Cand al doilea strat devine vizibi se inlocuieste scula cu una noua*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*



	L	L1		
440301	460	270	710	325,69

753VDEDP

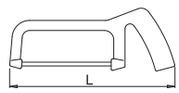
Rama bomfaier 150 mm izolata la 1000 V

- *lama interschimbabila*
- *in concordanta cu standardul SR EN 60900:2005*

Avantaje:

- *dublu strat-doua culori distincte care asigura o protectie suplimentara.Cand al doilea strat devine vizibi se inlocuieste scula cu una noua*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





	L				
615502	150	276	1E	1	243,27

1340VDEDP

Penseta cu varfuri drepte izolata la 1000 V

- *material otel inoxidabil*
- *in concordanta cu standardul EN 60900:2004*

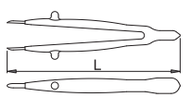
Avantaje:

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





	L				
616847	150	45	1E	1	99,24

1341VDEDP

Penseta cu varfuri indoite izolata la 1000 V

- *material otel inoxidabil*
- *in concordanta cu standardul EN 60900:2004*

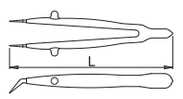
Avantaje:

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *100% control - fiecare piesa este testata*

Important

- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*



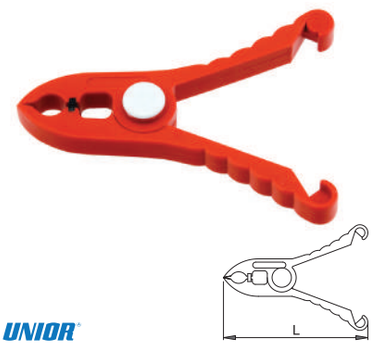


	L				
616848	150	40	1E	1	99,24

1351VDE

Clema de prindere

- *material plastic*

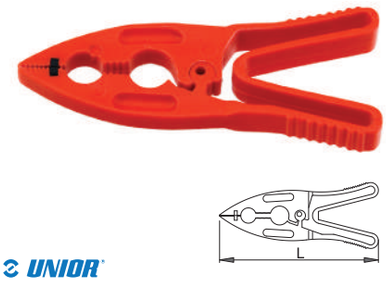


	L				
619099	160	77	1E	10	**71,80**

1352VDE

Clema de prindere

- *material plastic*



	L				
619100	140	54	1E	10	**33,81**

FR414

Manusi din cauciuc natural izolate

- *certificate conform ISO 9003*
- *grad ridicat de flexibilitate*
- *testate individual pe toata lungimea manusii*
- *conform EN-60 903*
- *360 mm ± 15 mm*



500V clasa 00

	Marime	
FR414098	9	**216,56**
FR414099	10	**216,56**
1000V clasa 0		
	Marime	
FR415095	9	**253,74**
FR415101	10	**253,74**
FR415118	11	**253,74**
17kV clasa 1		
	Marime	
FR417099	9	**458,10**
FR417105	10	**458,10**

603CS6AVT

Set de surubelnite izolate

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*



617653	6	457	1G	1	**137,96**

603VDETBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125),
613VDETBI (PH1 x 80, PH2 x 100)

603CS6VDE

Set de surubelnite izolate

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *monomaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*



617044	6	485	1G	1	**111,79**

603VDE (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150),
613VDE (PH1 x 80, PH2 x 100)

603CS6ATVT

Set de surubelnite izolate si tester de tensiune

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*



617654	6	430	1G	1	**129,30**

603VDETBI (0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), **613VDETBI** (PH1 x 80, PH2 x 100), **630VDE** (0.5 x 3.0 x 140)

603CS6TVDE

Set de surubelnite izolate si tester de tensiune

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *monomaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*



617045	6	460	1G	1	**108,77**

603VDE (0.8 x 4.0 x100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **613VDE** (PH1 x 80, PH2 x 100), **630VDE** (0.5 x 3.0 x 140)

603CS6VDETBI

Set de surubelnite izolate

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*



617042	6	530	1G	1	**152,36**

603VDETBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150),
613VDETBI (PH1 x 80, PH2 x 100)

603CS6TVDETBI

Set de surubelnite izolate si tester de tensiune

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*



617043	6	505	1G	1	**143,75**

603VDETBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **613VDETBI** (PH1 x 80, PH2 x 100), **630VDE** (0.5 x 3.0 x 140)

620CS6VDETBI

Set de surubelnite izolate profil hexagonal

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul 60900:2004*



617048	2.5 - 8 / 6	580	1G	1	**286,42**

620VDETBI (2.5, 3, 4, 5, 6, 8)

621CS6VDETBI

Set de surubelnite izolate profil TORX®

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul 60900:2004*



617049	TX 10 - TX 30 / 6	511	1G	1	**186,75**

621VDETBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30)

603CS6AVDE

Set de surubelnite izolate

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *monomaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*



617655	6	400	1G	1	**101,77**

603VDE (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125),
613VDE (PH1 x 80, PH2 x 100)

603CS6ATVD

Set de surubelnite izolate si tester de tensiune

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *monomaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*



617656	6	390	1G	1	**98,80**

603VDE (0.5x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125),
613VDE (PH1 x 80, PH2 x 100),
630VDE (0.5 x 3.0 x 140)

FR251174

Trusa scule izolate la 1000 V ELAN-17

- *1 cleste combinat, 180 mm, nr. 106*
- *1 cleste cu tais lateral, 160 mm, nr. 206*
- *1 cleste de telefonie, 160 mm, nr. 606*
- *1 cleste de dezizolare, 160 mm, nr. 806*
- *1 cleste de sertizare, 0,5-2,5 mm2, nr. 655*
- *1 taietor de cablu, 160 mm, nr. 486*
- *3 surubelnite, 100/4 - 125 / 5,5 - 150 / 6,5 mm, nr. 207*
- *1 surubelnite PH 2, nr. 210*
- *1 tester de tensiune, 65/3 mm, nr. 220*
- *1 dalta de piatra, 250 x 23/13 mm*
- *1 dalta, 250 x 10 mm*
- *1 ciocan, 500 g*
- *1 spaclu, 50 mm*
- *1 castron cauciuc*
- *1 cheie universala*



	Dimensiune		
FR251174	330x190x280	17	**4589,47**

629CS6VDETBI

Set de surubelnite izolate cu cap tubular

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul 60900:2004*



617050	5.5 - 13 / 6	865	1G	1	**491,02**

629VDETBI (5.5, 6, 7, 8, 10, 13)

905VDEBI

Trusa scule izolate la 1000 V in mapa textila



617571	13	1958	1T	1	**911,17**

406/1VDEBI (180), **461/1VDEBI** (160), **478/1VDEBI** (160), **472/1VDEBI** (160), **753VDEDP** (150), **385VDE** (180), **603VDETBI** (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), **613VDETBI** (PH1 x 80, PH2 x 100), **710P** (3), **630VDE** (0.5 x 3.0 x 140)

906VDEBI

Trusa scule izolate la 1000 V in mapa textila



617573	6	911	1T	1	**339,98**

461/1VDEBI (160), **406/1VDEBI** (180), **603VDETBI** (0.4 x 2.5 x 75, 0.8 x 4.0 x 100), **613VDETBI** (PH2 x 100), **630VDE** (0.5 x 3.0 x 140)

607MD3

Stand cu surubelnite izolate la 1000 V

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul 60900:2004*



UNIOR

623918	80	1K	1	2094,22

603VDETBI (8x(0.4x2.5x75), 8x(0.5x3.0x100), 8x(0.8x4.0x100), 6x(1.0x5.5x125), 6x(1.2x6.5x150), 4x(1.2x8.0x175)),
613VDETBI (8x(PH0x60), 6x(PH1x80), 6x(PH2x100), 4x(PH3x150)), **630VDE** (8x(0.5x3.0x140), 8x(0.6x3.5x180)),
995.0MD1 (480 x 215 x 63), **995.2MD1** (475 x 45)

630VDE140ST

Stand testere de tensiune 220-250 V



UNIOR

623907	18	700	1G 1	240,48

630VDE 18 x (0.5 x 3.0 x 140)

402C5

Set de clesti in cutie de carton



UNIOR

604552	3	870	1	308,53

406/VDEBI (180), **461/VDEBI** (160), **506/VDEBI** (160)

964VDE1

Set de chei fixe simple izolate la 1000 V in modul SOS

- *material suport: spuma de polietilena de joasa densitate*



UNIOR

621782	6 - 24 / 15	2500	1F 1	938,51

110/2VDEDP (6, 7, 8, 10, 12, 13, 14, 15, 17, 19, 20, 21, 22, 23, 24), **VL964VDE1** (374 x 364 x 30)

VL964VDE1

Modul SOS pentru 964VDE1

- *material suport: spuma de polietilena de joasa densitate*

UNIOR

	B	L	H				
621781	374	364	30	112	1V	1	59,83

964VDE2

Set de chei inelare izolate la 1000 V in modul SOS

- *material suport: spuma de polietilena de joasa densitate*



UNIOR

621784	10 - 24 / 11	2600	1F 1	767,52

180/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24), **VL964VDE2** (374 x 364 x 30)

402C6

Set de clesti in cutie de carton



UNIOR

614269	3	870	1	313,63

506/VDEBI (160), **461/VDEBI** (160), **478/VDEBI** (160)

VL964VDE2

Modul SOS pentru 964VDE2

- *material suport: spuma de polietilena de joasa densitate*

UNIOR

	B	L	H				
621783	374	364	30	112	1V	1	59,83

964VDE3

Set clesti izolati la 1000 V in modul SOS

- *material suport: spuma de polietilena de joasa densitate*



UNIOR

621786	12	3200	1F	1	1335,79

406/1VDEDP (180), **420/1VDEDP** (180), **447/1VDEDP** (240), **461/1VDEDP** (160), **466/1VDEDP** (180), **472/1VDEDP** (160), **476/1VDEDP** (160), **478/1VDEDP** (160), **506/1VDEDP** (160), **508/1VDEDP** (170), **512/1VDEDP** (170), **580/1VDEDP** (170), **VL964VDE3** (564 x 364 x 30)

VL964VDE3

Modul SOS pentru 964VDE3

- *material suport: spuma de polietilena de joasa densitate*

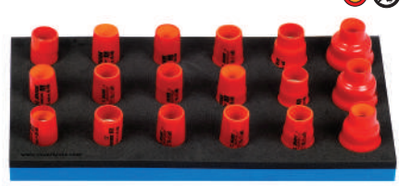
UNIOR

	B	L	H				
621785	564	364	30	168	1V	1	95,73

964VDE5

Set de capete chei tubulare izolate la 1000 V in modul SOS

- *material suport: spuma de polietilena de joasa densitate*



UNIOR

621790	8 - 32 / 18	2200	1F	1	1050,63

190/2VDEDP (8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32), **VL964VDE5** (188 x 364 x 30)

VL964VDE5

Modul SOS pentru 964VDE5

- *material suport: spuma de polietilena de joasa densitate*

UNIOR

	B	L	H				
621789	188	364	30	56	1V	1	31,13

964VDE7

Set de chei locas hexagonal izolate la 1000 V in modul SOS

• material suport: spuma de polietilena de joasa densitate



621798	3 - 12 / 7	1000	1F	1	314,00

220/3LVDEDP (3, 4, 5, 6, 8, 10, 12), **VL964VDE7** (188 x 364 x 30)

VL964VDE7

Modul SOS pentru 964VDE7

• material suport: spuma de polietilena de joasa densitate

	B	L	H			
621797	188	364	30	56	1V	1	31,13

964VDE8A

Set surubelnite cu profil lat izolate la 1000 V in modul SOS

• material suport: spuma de polietilena de joasa densitate



621800	11	1300	1F	1	336,14

603VDETBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.0 x 4.5 x 125, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200), **630VDE** (0.5 x 3.0 x 140, 0.6 x 3.5 x 180), **VL964VDE8A** (374 x 364 x 30)

VL964VDE8A

Modul SOS pentru 964VDE8A

• material suport: spuma de polietilena de joasa densitate

	B	L	H			
621799	374	364	30	112	1V	1	59,83

964VDE8B

Set de surubelnite cruce izolate la 1000 V in modul SOS

• material suport: spuma de polietilena de joasa densitate



621802	8	900	1F	1	250,13

613VDETBI (PH0 x 60, PH1 x 80, PH2 x 100, PH3 x 150), **623VDETBI** (PZ0 x 60, PZ1 x 80, PZ2 x 100, PZ3 x 150), **VL964VDE8B** (188 x 364 x 30)

VL964VDE8B

Modul SOS pentru 964VDE8B

• material suport: spuma de polietilena de joasa densitate

	B	L	H			
621801	188	364	30	56	1V	1	31,13



964VDE8D

Set de surubelnite cu profil TORX® izolate la 1000 V in modul SOS

• material suport: spuma de polietilena de joasa densitate



621806	TX 10 - TX 30 / 6	615	1F	1	218,22

621VDETBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30), **VL964VDE8D** (188 x 364 x 30)

VL964VDE8D

Modul SOS pentru 964VDE8D

• material suport: spuma de polietilena de joasa densitate

	B	L	H			
621805	188	364	30	56	1V	1	31,13

964VDE8E

Set de surubelnite tubulare izolate la 1000 V in modul SOS

• material suport: spuma de polietilena de joasa densitate



621808	5.5 - 13 / 6	934	1F	1	522,50

629VDETBI (5.5, 6, 7, 8, 10, 13), **VL964VDE8E** (188 x 364 x 30)

VL964VDE8E

Modul SOS pentru 964VDE8E

• material suport: spuma de polietilena de joasa densitate

	B	L	H			
621807	188	364	30	56	1V	1	31,13

X Key

Cheie universala pentru panouri

- *aplicatii: inginerie electrica, instalatii de incalzire, climatizare si ventilare, industrie, constructii (ex. tablouri de comanda, sisteme de blocare, instalatii tehnice pentru evacuarea aerului)*
- *cheie universală cu mecanism de glisare*
- *profil triunghiular interior 7-9 mm, 11 mm*
- *patrat interior 6-7 mm, 8-9 mm*
- *patrat exterior 7 + 8 mm*
- *profil tubular tesit "peste" 3-5 mm*
- *portbit*



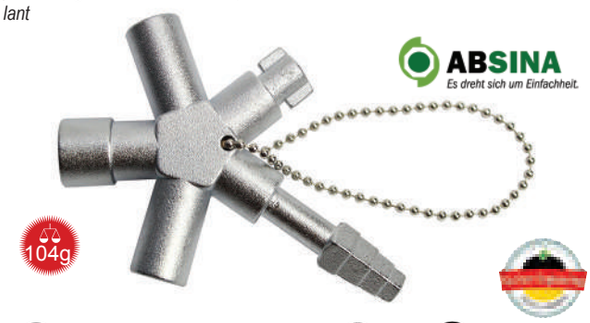
8 - 9 mm
5 -10 mm
3 - 5 mm
7 - 11 mm
7 mm
Phillips PH2
6 - 7 mm
Portbit

	Dimensiuni	kg	
AB-1001	95x95x13 mm	0,136	90,92

SI - Key Bau

Cheie universala pentru panouri

- *aplicatii: inginerie electrica, instalatii de incalzire, climatizare si ventilare, industrie, constructii (ex. tablouri de comanda, sisteme de blocare, instalatii tehnice pentru evacuarea aerului)*
- *patrat interior 6-7 mm, 8-9 mm*
- *patrat exterior 5-10 mm*
- *profil tubular tesit "peste" 3-5 mm*
- *profil triunghiular interior 7-9 mm, 11 mm*
- *lant*



8 - 9 mm
5 -10 mm
3 - 5 mm
7 - 9si 11 mm
6 - 7 mm

	Dimensiuni	kg	
AB-1004	95x95x13 mm	0,136	57,79

SI - XKEY

Cheie universala pentru panouri

- *cheie universală cu mecanism de glisare*
- *patrat interior 6-7 mm, 8-9 mm*
- *patrat exterior 7 + 8 mm*
- *profil tubular tesit "peste" 3-5 mm*
- *profil triunghiular interior 7-9 mm, 11 mm*
- *bit cu doua capete*
- *include SI-PLUS cu 2 functii*
- *profil semiluna*
- *patrat interior 5 mm*



8 - 9 mm
5 -10 mm
3 - 5 mm
7 - 11 mm
7 mm
Phillips PH2
6 - 7 mm
Portbit
Semiluna

	Dimensiuni	kg	
AB-1002	65x65x17 mm	0,141	104,79

SI - Key Bau Plus

Cheie universala pentru panouri

- *aplicatii: inginerie electrica, instalatii de incalzire, climatizare si ventilare, industrie, constructii (ex. tablouri de comanda, sisteme de blocare, instalatii tehnice pentru evacuarea aerului)*
- *patrat interior 6-7 mm, 8-9 mm*
- *patrat exterior 5-10 mm*
- *profil tubular tesit "peste" 3-5 mm*
- *profil triunghiular interior 7-9 mm, 11 mm*
- *bit cu doua capete*
- *lant*



8 - 9 mm
5 -10 mm
3 - 5 mm
7 - 9si 11 mm
7 mm
Phillips PH2
6 - 7 mm

	Dimensiuni	kg	
AB-1005	65x65x17 mm	0,141	63,95

SI - Key Bau X Plus

Cheie universala pentru panouri

• aplicatii: inginerie electrica, instalatii de incalzire, climatizare si ventilare, industrie, constructii (ex. tablouri de comanda, sisteme de blocare, instalatii tehnice pentru evacuarea aerului)
• patrat interior 6-7 mm, 8-9 mm
• patrat exterior 5-10 mm
• profil tubular tesit "peste" 3-5 mm
• profil triunghiular interior 7-9 mm, 11 mm
• lant
• bit cu doua capete
• include SI-PLUS cu 2 functii
• profil semiluna
• patrat interior 5 mm



ABSINA
Es dreht sich um Einfachheit.

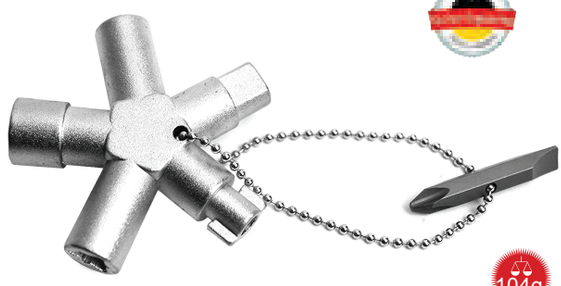
8 - 9 mm | 5 -10 mm | 3 - 5 mm | 7 - 11 mm | 7 mm | Phillips PH2
6 - 7 mm | Portbit | Semiluna

	Dimensiuni	kg	
AB-1006	65x65x17 mm	0,141	**78,59**

SI - Key Elektro Plus

Cheie universala pentru panouri

• aplicatii: inginerie electrica, instalatii de incalzire, climatizare si ventilare, industrie, constructii (ex. tablouri de comanda, sisteme de blocare, instalatii tehnice pentru evacuarea aerului)
• patrat interior 6-7 mm, 8-9 mm
• profil tubular tesit "peste" 3-5 mm
• profil triunghiular interior 7-9 mm, 11 mm
• lant
• bit cu doua capete
• include SI-PLUS cu 2 functii
• profil semiluna
• patrat interior 5 mm



ABSINA
Es dreht sich um Einfachheit.

8 - 9 mm | Semiluna | 3 - 5 mm | 7 - 11 mm | 7 mm | Phillips PH2
6 - 7 mm | Portbit

	Dimensiuni	kg	
AB-1008	65x65x17 mm	0,141	**63,95**

SI - Key Elektro

Cheie universala pentru panouri

• aplicatii: inginerie electrica, instalatii de incalzire, climatizare si ventilare, industrie, constructii (ex. tablouri de comanda, sisteme de blocare, instalatii tehnice pentru evacuarea aerului)
• patrat interior 6-7 mm, 8-9 mm
• profil tubular tesit "peste" 3-5 mm
• profil triunghiular interior 7-9 mm, 11 mm
• lant



ABSINA
Es dreht sich um Einfachheit.

8 - 9 mm | 3 - 5 mm | 7 - 11 mm | 6 - 7 mm | Portbit | Semiluna

	Dimensiuni	kg	
AB-1007	65x65x17 mm	0,141	**57,79**



ABSINA dezvolta si face proiectarea produselor in Germania si le produce pe piata mondiala. Oferim produse inovatoare pentru uz profesional si industrial si pentru conexiuni cu surub. Simplificarea aplicatiilor, dezvoltarea si fabricarea instrumentelor de cea mai buns calitate, precum si vanzarile la nivel mondial a produselor noastre este scopul nostru, obiectivul si tinta. Pentru noi, siguranta si calitatea sunt primordiale. Avem multi ani de experienta in dezvoltarea, producerea si vanzarea sculelor de mana si surubelnite. Noi garantam siguranta produsului prin controlului strict al calitatii. Prin disponibilitatea si seriozitatea noastra, ne puteti considera un partener de incredere. In ceea ce facem, mentalitatea noastra se concentreaza in mod deosebit pe protejarea mediului.

SI - Key DB Norm

Cheie universala pentru panouri

- *aplicatii: inginerie electrica, instalatii de incalzire, climatizare si ventilare, industrie, constructii (ex. tablouri de comanda, sisteme de blocare, instalatii tehnice pentru evacuarea aerului)*
- *patrat interior 6-7 mm, 8-9 mm*
- *profil tubular tesit "peste" 3-5 mm*
- *profil triunghiular interior 7-9 mm, 11 mm*
- *lant*
- *profil DB Norm*



ABSINA
Es dreht sich um Einfachheit.

8 - 9 mm | 6 - 7 mm | 3 - 5 mm | 7 - 11 mm | DB Norm | Portbit

	Dimensiuni	kg	
AB-1009	65x65x17 mm	0,141	**57,79**

SI - Key DB Norm Plus

Cheie universala pentru panouri

- *aplicatii: inginerie electrica, instalatii de incalzire, climatizare si ventilare, industrie, constructii (ex. tablouri de comanda, sisteme de blocare, instalatii tehnice pentru evacuarea aerului)*
- *patrat interior 6-7 mm, 8-9 mm*
- *profil tubular tesit "peste" 3-5 mm*
- *profil triunghiular interior 7-9 mm, 11 mm*
- *lant*
- *bit cu doua capete*
- *profil DB Norm*



ABSINA
Es dreht sich um Einfachheit.

8 - 9 mm | 6 - 7 mm | 3 - 5 mm | 7 - 11 mm | 7 mm | Phillips PH2 | DB Norm | Portbit

	Dimensiuni	kg	
AB-1010	65x65x17 mm	0,141	**63,95**

SI - Key DB Norm XPlus

Cheie universala pentru panouri

- *aplicatii: inginerie electrica, instalatii de incalzire, climatizare si ventilare, industrie, constructii (ex. tablouri de comanda, sisteme de blocare, instalatii tehnice pentru evacuarea aerului)*
- *patrat interior 6-7 mm, 8-9 mm*
- *profil tubular tesit "peste" 3-5 mm*
- *profil triunghiular interior 7-9 mm, 11 mm*
- *lant*
- *bit cu doua capete*
- *profil DB Norm*
- *include SI-PLUS cu 2 functii*
- *profil semiluna*
- *patrat interior 5 mm*



ABSINA
Es dreht sich um Einfachheit.

8 - 9 mm | Semiluna | 3 - 5 mm | 7 - 11 mm | 7 mm | Phillips PH2 | 6 - 7 mm | Portbit | DB Norm | 5 mm

	Dimensiuni	kg	
AB-1011	65x65x17 mm	0,141	**78,59**

500005

Cheie universala pentru panouri

- *aplicatii: inginerie electrica, instalatii de incalzire, climatizare si ventilare, industrie, constructii (ex. tablouri de comanda, sisteme de blocare, instalatii tehnice pentru evacuarea aerului)*
- *patrat interior 6-7 mm, 8-9 mm*
- *profil tubular tesit "peste" 3-5 mm*
- *profil triunghiular interior 9 mm*
- *lant*
- *bit cu doua capete*
- *patrat interior 5 mm*



FRIEDRICH®
Sicherheitswerkzeuge

64g

8 - 9 mm | 6 - 7 mm | 3 - 5 mm | 9 mm | 5 mm

	Dimensiuni	kg	
500005	70 mm	0,068	**107,33**

Scule electroizolante



Peste tot in lume, programul UNIOR este asociat cu atributele de siguranta, calitate si functionalitate a sculelor de mana.

Prin ce se remarca programul UNIOR de fabricatie a sculele de mana electroizolante, utilizate pentru lucrari sub tensiune pana la 1000V, in curent alternativ si 1500V, in curent continuu ?

- Domeniul este strict reglementat de standardul european EN 60900: 2012.
- toate sculele de mana electroizolante UNIOR sunt certificate de catre prestigiosul Institut de Testare si Certificare VDE (Verband Deutscher Elektrotechniker), Offenbach, Germania, motiv pentru care in mod uzual aceste scule sunt denumite si scule VDE.

- datorita izolatiilor care nu conduc electricitatea, sculele VDE UNIOR se numara printre cele mai sigure scule pentru lucrul sub tensiune. Realizate in conformitate cu standardul EN 60900:2012, fiecare scula este testata individual, asigurand o rata de protectie de 100%. Fiecare scula este izolata individual, numai partile cromate de actionare ramanand neizolate. Materialul este otel de compozitie speciala (crom vanadiu 31 CrV3), calit si revenit, tratat integral, partile taietoare fiind tratate suplimentar prin inductie (minim 60 HRC); manerele sunt din plastic pentru conditii grele.

- Toate sculele VDE UNIOR sunt testate bucata cu bucata la urmatoarele incercari de tip:
  - Incercarea de nepropagare a flacarii: Flacara este aplicata pe piesa timp de 10 secunde. Incercarea se considera corespunzatoare daca inaltimea urmei flacarii pe scula nu a depasit 120 mm intr-o perioada de 20 secunde de la indepartarea flacarii.
  - Test de izolatie: Inainte de testarea piesei aceasta este incalzita la 70° ± 2° C pentru 168 de ore. Manerul se incarca cu greutati (F=500 N), cheile si capetele chei tubulare se incarca cu greutati (F=100N). Durata testului este de 3 min dupa care piesa este detasata din dispozitiv. Testul este considerat acceptat daca izolatia ramane ferm prinsa de maner.
  - Incercari dielectrice: Inainte de testare scula este imersata intr-o baie de apa la temperatura camerei (23° C) timp de 24 de ore (± 5 ore). Piesa este considerata conforma daca dupa aplicarea unei tensiuni de 10 KV timp de 3 minute nu prezinta nicio strapungere, amorsare sau conturnare.
  - Incercarea de penetrare: Izolatia piesei este supusa unei forte de 20 N si o tensiune de 10 KV aplicate pe mijlocul manerului. Piesa este considerata conforma daca nu prezinta nicio strapungere, amorsare sau conturnare.
  - Incercarea la impact: Se efectueaza doua teste: Primul test se realizeaza la temperatura ambianta 25° ± 3° C (scula se aseaza intr-o camera rece timp de 2 ore) si se aseaza timp de 120 de secunde dupa ce a fost scoasa din camera. Ciocanul va cadea liber in trei locuri diferite ale izolatiei. Piesa este considerata conforma daca manerul nu prezinta fisuri, rupturi sau urme de exfoliere. Testul poate fi comparat cu o cadere a sculei de la o inaltime de 0.6 m la o temperatura de 25° si o cadere de la o inaltime de 2 m la temperatura camerei.

• fabricatia sculelor VDE UNIOR respecta toate standardele/normele DIN care reglementeaza sculele obisnuite, ceea ce le asigura un plus fata de branduri similare.

- Cheile fixe simple sunt tratate termic in conformitate cu cerintele standardului (ISO 1711-1, DIN 899), duritatea este corespunzatoare cu cerintele pentru moment de torsiune (ISO 1711-1, DIN 899), deschiderea cheilor conforma cu ISO 691 (DIN 475).
- Productia clestilor VDE UNIOR are la baza un control permanent al calitatii. In fiecare etapa de productie clestii sunt controlati bucata cu bucata pentru a preveni eventualele probleme si a mari siguranta acestora in timpul exploatarii.
- Forjarea capetelor de chei tubulare, prelungitoarele cu patrat de antrenare, antrenorul cotit, falcile clestilor, s.a., in varianta VDE este singurul procedeu tehnic acceptat la UNIOR.

• Preocuparile de a extinde imbunatatirea performantelor sculelor obisnuite si la sculele electroizolante se regaseste din plin la sculele VDE UNIOR:

- clestii reglabili VDE asigura obtinerea unui moment de strangere maxim in timpul lucrului cu un minim de efort. Cu sistemul special de pinten de protectie pentru mana se evita strivirea degetelor in timpul manevrarii. Falcile reglabile in 7 pozitii permitand ajustarea falcilor pentru diverse tipuri de lucrari cu aceeasi scula.
- Cheia inelara cotita VDE se fabrica folosind avantajul profilului „LIFE" - presiunea nu are un efect direct pe varful piulitei, nu deterioreaza suruburile si piulitele. Cu acest profil, suprafata de contact dintre cheie si piulita este mai mare, si, prin urmare, forta este plasata echidistant. Un mare avantaj este durata utila de viata a cheii si capacitatea cheii de a desuruba piulite si suruburi deformate.

• Sculele VDE au doua straturi de izolatie: primul strat, interior, ofera izolatia electrica, iar cel de-al doilea, exterior, asigura protectia mecanica pentru izolatia electrica. In acest mod, sculele izolate la 1000 V previn accidentele si socurile electrice in zona de lucru. Dublul strat de protectie al sculelor VDE asigura dubla protectie, se poate usor recunoaste uzura la timpul potrivit. Cand scula este uzata, stratul portocaliu devine vizibil, aceasta este avertizarea de schimbare imediata a sculei.

• Brandul UNIOR se mai distinge prin Linia VDE BI caracterizata prin maner bi-material si marcaj UNIOR prin injectare.Manerul din doua componente este destinat lucrarilor in conditii grele si se adapteaza perfect in mana utilizatorului. Forma ergonomica a manerului este proiectata pentru a asigura un moment maxim de actionare si o inalta fiabilitate a antrenorului cu clichet, permitand actionarea cu o singura mana.

Inainte de utilizare este obligatoriu de verificat corectitudinea marcajelor corespunzatoare sculelor VDE. Numai sculele ce prezinta marcate toate simbolurile prevazute de standardul european EN 60900: 2012 sunt scule izolate de incredere: simbol pentru scule pentru lucrul pana la 1000 V; simbol al institutului ce a certificat scula; simbol care indica concordanta cu simbolul standard (DIN) care certifica indeplinirea cerintelor de baza pentru scula (dimensiune, duritate,teste, mecanice etc.).

In concluzie, sculele VDE UNIOR asigura o maxima protectie la lucrul in zone cu circuite sub tensiune pana la 1000 V. In afara de protectie, sculele ofera calitate, simplitate, siguranta, confort si reduc riscurile in timpul utilizarii. Datorita caracterului universal, design-ului ergonomic si fiabilitatii sculelor VDE UNIOR, acestea reusesc sa satisfaca nevoile si dorintele clientului. Cu moderna tehnologie de creare a unei scule prietenoase, munca se face cu un efort redus si devine mai usoara si mai productiva. Sculele VDE UNIOR se adreseaza atat profesionistilor cat si utilizatorilor casnici.





SCULE PENTRU LUCRU LA INALTIME

TRADITIE INDELUNGATA > EXPERTIZA > SOLUTII TEHNOLOGICE MODERNE > PRODUSE DE INALTA CALITATE

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.

SCULE PENTRU LUCRU LA INALTIME SUNT UNELTE STANDARD CU PUNCTE DE PRINDERE. MASURILE DE SECURITE CRESC SEMNIFICATIV SIGURANTA LA LOCUL DE MUNCA

100 de ani de experienta ne-au invatat ca fiecare scule este potrivita pentru fiecare loc de munca. Acest lucru este valabil mai ales la lucru la inaltime, cum ar fi lucrarile la structuri inalte, linii electrice, industria nucleara, industria petrochimica si pe platformele petroliere. Uneltele utilizare la inaltimi pot fi periculoase atat pentru lucratori, cat si pentru echipamente si pot duce la costuri financiare majore. Prin urmare, am modificat instrumentele noastre standard, astfel incat acestea sa fie potrivite pentru lucrul la inaltime.

UNIOR

REDUCETI RISCUL, ALEGETI CORECT UNELTELE

Instrumentele in cadere pot fi extrem de periculoase, deoarece caderea mareste forta lor de impact. Forta de impact poate ajunge la **o suta de ori mai mult decat greutatea uneltei.**

Instrumentele in cadere pot ateriza pe oricine si pot avea consecinte negative deosebit de grave asupra companiei care efectueaza lucrarile, precum si asupra companiei pentru care se lucreaza. Mai mult decat atat, pe langa leziuni, sculele care cad se pot deteriora la impact. Cand o unealta este distrusa, lucratorul trebuie sa coboare din inaltime pentru a inlocui unealta, ceea ce consuma foarte mult timp.

Daca o unealta a cazut, munca poate continua numai dupa ce ati asigurat ca impactul nu a afectat functionarea si nu exista deteriorarea cordonului, a carabinelor, a inelelor de atasament sau a centurii de lucru sau orice deteriorare a punctului in care unealta este fixata sau ancorata

CENTURA DE LUCRU

Uneltele pentru lucru la inaltimi sunt proiectate pentru a fi utilizate cu o curea de lucru testata cu **inele de fixare a sculelor incorporate**. Cureaua se deschide sau se prinde si cu o clema care necesita o prindere in trei puncte, care impiedica eliberarea nedorita

VALOARE ADAUGATA MARCA UNIOR

La dezvoltarea si proiectarea uneletelor de lucru la inaltimi, Unior a consultat numerosi **profesionisti si companii care lucreaza in domeniul sigurantei sculelor si al sigurantei locurilor de munca**. Toate uneltele concepute pentru a lucra la inaltimi si pentru a proteja impotriva caderilor au fost testate in functie de tip. La fabricarea si testarea uneltelor s-au folosit solutii de proiectare care ofera cel mai inalt nivel de siguranta.

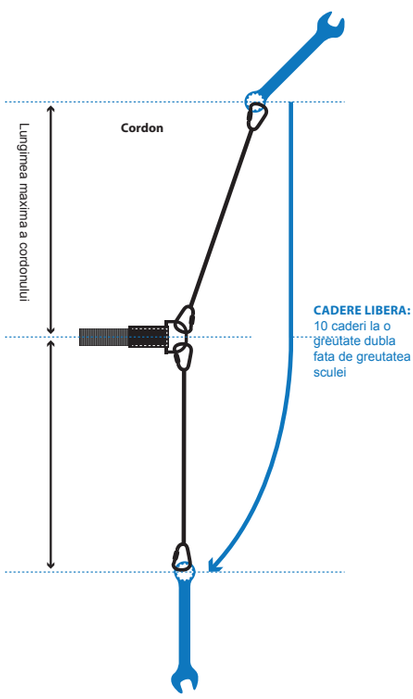
Analizele statice si dinamice se efectueaza pe tipurile de scule, in functie de caracteristicile incarcarilor posibile. Fiecare scula si inelul de atasare sunt testate la un factor de incarcare care este de doua ori mai mare decat valoarea de incarcare a sculei, ceea ce inseamna ca scula poate rezista unei sarcini care se incadreaza de doua ori greutatea sculei individuale.

Metoda de testare statica

Unealta este atasata unei structuri. Atasamentul si inelul sunt incarcate pentru o anumita perioada de timp la o anumita sarcina de incarcare.

Metoda de testare dinamica

Dupa incercarile statice, cordonului, inelul si unealta sunt supuse incarcarilor dinamice care apar in caderi la greutati.



Chei	728
Capete chei tubulare	730
Clesti	733
Surubelnite	735
Ciocane	736
Dornuri, punctatoare, dalti	739
Menghine	738
Fierastraie	738
Pile	738
Cuttere	738
Accesorii	739





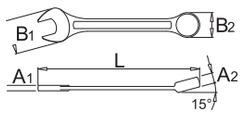
120/1-H

Chei combinate, varianta lunga cu inel pentru carabiniera

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *finisaj de suprafata: cromare in conformitate cu EN12540: 2000*
- *capul lustruit*
- *cap inelar cu profil LIFE*
- *realizate conform standardului ISO 7738 (doar dimensiunile in mm)*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

		L	B2	B1	A2	A1		
626076	6	119	10.4	14.5	5	3.5	0.014	**49,28**
626077	7	129	11.5	16.5	5.8	3.9	0.015	**49,38**
626078	8	141	13.2	18.5	6.9	3.9	0.023	**50,45**
626079	9	152	14.3	21	7.3	4	0.027	**52,98**
626080	10	163	15.9	23	7.5	4.2	0.037	**54,63**
626081	11	176	17.8	24.5	8	4.5	0.045	**55,80**
626082	12	186	19.4	26.5	8.5	4.7	0.055	**57,26**
626083	13	199	20.4	29.5	8.5	5.2	0.068	**59,01**
626084	14	210	22	31.5	9	5.2	0.082	**59,69**
626085	15	222	23.5	33.5	9.5	5.7	0.096	**61,78**
626086	16	234	24.8	36	10.5	6.2	0.121	**62,27**
626087	17	245	16.1	38	10.5	6.7	0.144	**65,24**
626088	18	257	27.7	40	11	7.2	0.165	**67,33**
626089	19	268	29.3	42	12	7.2	0.186	**69,71**
626090	20	280	31	44	12.5	7.7	0.225	**72,19**
626091	21	291	32.6	45.5	13	8.2	0.251	**74,87**
626092	22	303	34.1	46.5	13	8.2	0.266	**78,28**
626093	23	314	35.7	50.5	13	8.2	0.300	**84,31**
626094	24	330	37.3	52.5	14	8.5	0.382	**88,01**
626095	25	337	39	54.5	14.5	8.5	0.377	**94,09**
626096	26	349	40.1	56	15	8.5	0.422	**95,98**
626097	27	360	41.6	57.5	15	9	0.453	**102,31**
626098	28	373	43.2	59.5	15.1	9	0.532	**109,17**
626099	29	383	44.9	61.5	16	9.5	0.567	**114,91**
626100	30	395	46.5	63.5	16	10	0.632	**119,58**
626101	32	416	49	68	16.5	10.5	0.719	**126,20**
626176	35	500	53.5	78.8	20	13.6	1.405	**189,78**
626117	36	500	53.5	78.8	20	13.6	1.415	**198,15**
626174	38	515	58	82.8	20.5	14.1	1.310	**210,50**
626118	41	540	62	86.8	21	14.6	2.025	**241,74**
626321	50	580	75	103	24	17	1.955	**424,32**
626295	1/4"	119	10.4	14.5	5	3.5	0.014	**49,28**
626296	5/16"	142	13.2	18.5	6.9	3.9	0.023	**50,45**
626297	3/8"	153	14.3	21	7.3	4	0.027	**54,63**
626298	7/16"	176	17.8	24.5	8	4.5	0.045	**55,80**
626299	1/2"	199	20.4	29.5	8.5	5.2	0.068	**59,01**
626300	9/16'	211	22	31.5	9	5.2	0.082	**59,69**
626301	5/8"	234	24.8	36	10.5	6.2	0.121	**63,10**
626302	11/16"	245	26.1	38	10.5	6.7	0.144	**67,33**
626303	3/4"	268	29.3	42	12	7.2	0.186	**69,71**
626304	13/16"	291	32.6	45.5	13	8.2	0.251	**74,87**
626305	7/8"	303	34.1	46.5	13	8.2	0.266	**78,28**
626306	15/16"	330	37.3	52.5	14	8.5	0.382	**86,01**
626307	1"	337	39	54.4	14.5	8.5	0.377	**94,09**
626308	1 1/16"	360	41.6	57.5	15	9	0.453	**102,31**
626309	1 1/8"	372	43.2	59.5	15.5	9	0.532	**109,17**
626310	1 1/4"	417	49	68	16.5	10.5	0.719	**119,58**
626311	1 5/16"	417	49	68	16.5	10.5	0.732	**126,20**
626312	1 3/8"	500	53.5	78.8	20	13.6	1.425	**237,84**
626313	1 7/16"	500	53.5	78.8	20	13.6	1.395	**237,84**
626314	1 1/2"	500	53.5	78.8	20	13.6	1.335	**237,84**
626315	1 5/8"	540	62	86.8	21	14.6	1.975	**296,22**
626316	1 11/16"	540	62	86.8	21	14.6	1.995	**296, 22**

179/2-H

Cheie inelara dublu cotita pentru schela cu inel pentru carabiniera

- *material: crome vanadium*
- *forjare, calire si intarire totala*
- *acoperire cromare conform EN12540*
- *acoperire prin cromare*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

		L	B2	B1	A2	A1		
626161	21 x 22	316	34	35	17	17	1.995	**112, 48**

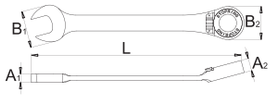
160/2-H

Cheie combinata cu clichet cu inel pentru carabiniera

- *material: crom vanadiu*
- *tratament termic complet*
- *clichet: lucreaza in ambele sensuri, sensul de rotatie se schimba din buton*
- *partea poligonala a cheii este dotata de un inel de blocaj destinat impiedicarii alunecarii neasteptate de pe piulita si de a facilita repozitionarea pe aceasta.*
- *permite strangerea piulitei usor si rapid, fara risc de ranire a utilizatorului si repozitionarea cheii pe piulita in mod sigur si precis.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

		L	B2	B1	A2	A1		
626389	8	134	17.1	16.7	8.4	4.7	0.035	**82,65**
626390	9	158	21	21	8.4	5.5	0.061	**83,77**
626391	10	158	21	21	8.4	5.5	0.055	**83,77**
626392	11	164	22.6	23	9.7	6	0.069	**85,62**
626393	12	167	23.8	25	9.7	6.2	0.079	**89,56**
626394	13	177	24.9	27.5	9.7	6	0.098	**92,53**
626395	14	189	27	29	10.1	7	0.114	**96,67**
626396	15	198	28.1	31.5	11.7	7.2	0.137	**102,41**
626397	16	204	29.9	33	11.7	7.5	0.164	**106,54**
626398	17	224	31.9	34.9	11.7	8	0.182	**111,45**
626399	18	245	34.4	38.9	12	8.8	0.216	**119,72**
626400	19	245	34.4	38.9	19	12	0.229	**123,81**
626401	21	280	45.7	42.6	14.2	9.5	0.398	**154,65**
626402	22	280	45.7	42.6	14.2	9.5	0.379	**150,18**
626403	24	310	51.7	46.5	14.7	10	0.488	**171, 68**

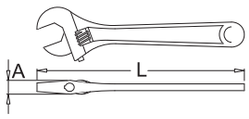
250/1-H

Cheie reglabila cu rola cu inel pentru carabiniera

- *material: crome vanadium*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *cu scala*
- *in conformitate cu standardul ISO 6787*
- *greutatea sculei este marcata pe fiecare scula*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

		L	A			
626106	200	205	14.4	28	0.243	**104,50**
626107	250	254	16.9	32	0.439	**128,14**
626108	300	303.5	19.1	38	0.702	**171,24**
626109	380	375	23.8	50	1.315	**302,01**
626162	450	458.5	26.3	60	1.730	**477,93**

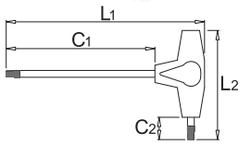
193HX-H

Cheie hexagonala cu maner in T cu inel pentru carabiniera

- *material: tija-crom vanadium tratata complet*
- *maner polipropilena*
- *lama cromata, varful brunat*
- *inelul metalic rotativ este proiectat ergonomic si impiedica rasucirea snurului.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

		L1	C1	C2	L2		
626177	2.5	155	125	15	61	0.013	**38,38**
626178	3	155	125	15	61	0.016	**38,77**
626180	4	155	125	15	61	0.024	**43,35**
626182	5	188	150	20	88	0.056	**47,14**
626183	6	188	150	20	88	0.074	**49,18**
626184	7	223	175	25	113	0.128	**59,74**
626185	8	223	175	25	113	0.155	**61,44**
626186	10	248	200	25	113	0.233	**72,58**

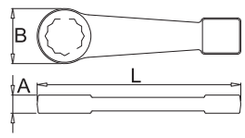
184/7-H

Cheie inelara de soc cu inel pentru carabiniera

- *material: otel carbon de scule*
- *forjata, calire si revenire totala*
- *acoperire: uleiere anticoroziva*
- *in concordanta cu standardul DIN 7444 (numai dimensiunile in mm)*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

		L	A	B		
626344	24	180	16	48.6	0.534	**127,41**
626345	27	180	16	48.6	0.514	**137,14**
626346	30	180	16	48.6	0.488	**153,78**
626347	32	190	18	58.4	0.739	**160,83**
626348	36	190	18	58.4	0.694	**190,75**
626349	41	235	22	74	1.425	**236,63**
626350	46	235	22	74	1.360	**257,60**
626351	50	235	22	74	1.335	**283,18**
626360	1 1/16"	180	16	49	0.512	**141,71**
626361	1 1/8"	180	16	49	0.511	**141,71**
626362	1 3/16"	180	16	49	0.502	**159,13**
626363	1 1/4"	190	18	58	0.740	**166,53**
626364	1 5/16"	190	18	58	0.708	**197,95**
626365	1 3/8"	190	18	58	0.700	**197,95**
626366	1 7/16"	190	18	58	0.687	**197,95**
626367	1 1/2"	235	22	74	1.470	**245,97**
626368	1 5/8"	235	22	74	1.425	**245,97**
626369	1 11/16"	235	22	74	1.440	**245,97**
626370	1 3/4"	235	22	74	1.410	**267,91**
626371	1 13/16"	235	22	74	1.360	**267,91**
626372	1 7/8"	235	22	74	1.350	**294,86**
626373	2"	235	22	74	1.335	**294,86**
626374	2 1/16"	275	27	98	1.860	**325,75**

220/3MH-H

Set de chei locas hexagonal tip briceag metalic cu inel pentru carabiniera

- *acoperire prin cromare*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.



UNIOR

626232	2.5-10 mm (2.5, 3, 4, 5, 6, 8, 10)	0,349	**111.21**

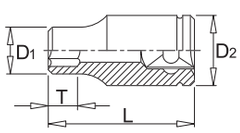
190/1 12P-H

Capete chei tubulare 1/2" cu 12 laturi

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *greutatea sculei este marcata pe fiecare scula*
- *fabricate in conformitate cu standardele ISO 3315-B (accesorii) si ISO 2725-1B (capete)*
- *capetele tubulare si accesoriile de conectare necesita utilizarea unui instrument specific (articolul 1111)*
- *capete chei tubulare si accesorii cu gsuri laterale*
- *atentionari! conactarile pentru capetele tubulare si accesoriile necesare trebuie sa fie efectuate intr-o zona securizata anterior sau in siguranta*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

		L	D1	D2	T		
626143	10	38	15	22.9	12	0.055	**35,81**
626144	11	38	16.3	22.9	12	0.055	**35,81**
626145	12	38	17.9	22.9	12	0.065	**35,81**
626146	13	38	18.8	22.9	12	0.065	**35,81**
626147	14	38	19.7	22.9	12	0.065	**35,81**
626148	15	38	20.4	22.9	12	0.065	**35,81**
626149	16	38	22.9	21.5	12	0.065	**35,81**
626150	17	38	24.3	22	12	0.065	**40,38**
626151	18	38	25.5	23	12	0.100	**40,38**
626152	19	38	26.8	24	14	0.105	**40,38**
626153	20	38	28.1	24	14	0.115	**41,21**
626154	21	38	29.3	25	14	0.128	**41,21**
626155	22	38	30.4	25	14	0.142	**41,55**
626156	23	40	31.7	26	14	0.147	**44,03**
626157	24	42	33.1	28	16	0.165	**44,03**
626158	27	43	37	30	18	0.180	**46,46**
626159	30	46	40.7	34	22	0.195	**49,57**
626160	32	46	43.2	36	22	0.237	**49,57**
626388	36	46	48	42	22	0.245	**64,36**
626203	3/8"	38	15	22.9	12	0.055	**37,56**
626204	7/16"	38	16.3	22.9	12	0.055	**37,56**
626205	1/2"	38	18.8	22.9	12	0.065	**38,92**
626206	9/16"	38	20.4	22.9	12	0.065	**38,92**
626207	19/32"	38	20.4	20.7	12	0.065	**39,50**
626208	5/8"	38	22.9	21.5	12	0.065	**39,50**
626209	11/16"	38	25.5	23	12	0.065	**39,50**
626210	3/4"	38	26.8	24	14	0.105	**41,89**
626211	25/32"	38	27.9	24	14	0.115	**46,12**
626212	13/16"	38	29.3	25	14	0.128	**46,12**
626213	7/8"	40	31.7	26	14	0.142	**43,54**
626214	15/16"	42	33.1	28	16	0.165	**45,29**
626215	1"	42	35.3	30	16	0.170	**46,46**
626216	1.1/16"	43	37	30	18	0.180	**48,84**
626217	1.1/8"	43	39	32	20	0.190	**51,91**
626218	1.3/16"	46	40.7	34	22	0.195	**54,05**
626219	1.1/4"	46	43.2	36	22	0.237	**55,56**

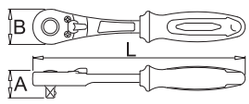
190.1/1ABI-H

Antrenor cu clichet reversibil cu inel pentru carabiniera

- *material:compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

		L	A	B		
626245	1/2"	260	36	45	0,423	**232.40**

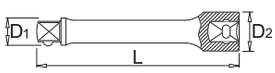
190.4/1-H

Prelungitor lung 1/2"

- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare conform EN12540*
- *polizate*
- *greutatea sculei este marcata pe fiecare scula*
- *fabricate in conformitate cu standardele ISO 3315-B (accesorii) si ISO 2725-1B (capete)*
- *capetele tubulare si accesoriile de conectare necesita utilizarea unui instrument specific (articolul 1111)*
- *capete chei tubulare si accesorii cu gsuri laterale*
- *atentionari! conactarile pentru capetele tubulare si accesoriile necesare trebuie sa fie efectuate intr-o zona securizata anterior sau in siguranta*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

		L	D1	D2		
626103	1/2"	125	16,8	24	0,178	**56,04**
626104	1/2"	250	16,8	24	0,326	**67,57**

1111

Instrument de eliberare capete chei tubulare

- *instrumentul este folosit pentru a elibera capetele chei tubulare de pe accesorii pentru o munca sigura la inaltime.*



UNIOR

627339	0,014	**5,98**

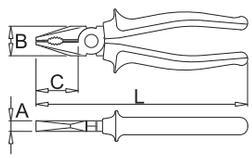
405/1BI-H

Cleste combinat cu maner bimateial cu inel pentru carabiniera

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *maner bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5746*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L	A	B	C		
626958	160	9.5	24	35	0.224	**112,43**
626959	180	10	27	38	0.273	**117,97**

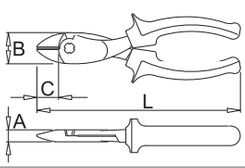
466/1BI-H

Cleste tais lateral pentru conditii grele cu inel pentru carabiniera

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5749*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L	A	B	C		
626960	160	10	23.5	20.5	0.214	**122,44**
626961	180	11	28	20	0.313	**137,57**

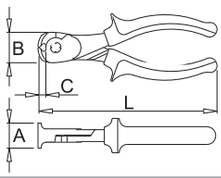
455/1BI-H

Cleste cu tais fata cu inel pentru carabiniera

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5748*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L	A	B	C		
626201	160	22	27	7	0,254	**134,37**

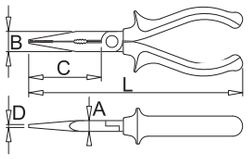
508/1BI-H

Cleste cu varfuri semirotunde si tais lateral cu inel pentru carabiniera

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5745*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L	A	B	C	D		
626189	200	9	17	77	2,5	0,191	**127,51**

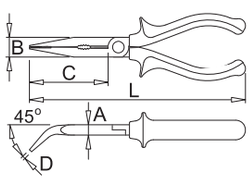
512/1BI-H

Clesti cu varfuri semirotunde indoite si tais lateral cu inel pentru carabiniera

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5745*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L	A	B	C	D		
626962	170	9	17	61	2,5	0,152	**133,54**
626192	200	9	17	77	2,5	0,204	**137,53**

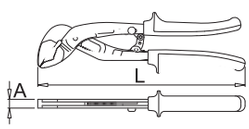
442/1HYPO-H

Cleste reglabil pentru instalatori tip HYPO cu inel pentru carabiniera

- *material: compozitie speciala pentru calire revenire*
- *suprafata de lucru tratata prin inductie*
- *manere bimaterial pentru conditii grele*
- *tratat complet*
- *clestii HYPO sunt cu autoreglare, deci nu este necesar sa se reglezein avans deschiderea falcilor*
- *operare cu o mana, autoajustabila*
- *clestele de adapteaza perfect la piesa de lucru*
- *deschiderea maxima a falcilor : Ø 40 mm.*
- *meacnismul de blocare permite depozitarea facila a uneltei dupa folosire*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L		A		
626244	240	40	9	0,397	**186,33**

447/1HPP-H

Cleste reglabil pentru instalatori cu inel pentru carabiniera

- *material: crome vanadium*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *dantura dintilor este conceputa pentru a asigura strangerea optima a piesei*
- *deschiderea falcilor reglabila in 10 pozitii*
- *strangere ferma: designul si forma falcilor asigura o mai buna strangere a piesei, avand ca rezultat stabilitate, siguranta si un randament mai bun.*
- *ergonomie: manerele sunt proiectate pentru o adaptare perfecta a mainii si asigura o mai mare strangere si siguranta.*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.



UNIOR

	L		A		
626343	240	40	8.5	0,392	**190,31**

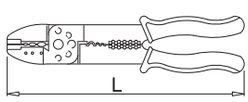
425/4B-H

Cleste de sertizat cu inel pentru carabiniera

- *confectionat din tabla*
- *tratament termic complet*
- *maner de plastic pentru conditii grele*
- *pentru terminale izolate si inchise neizolate*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L			
626110	240	1,5-6 mm	0,320	**132,23**

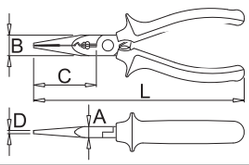
514/1BI-H

Cleste multifunctional pentru electricieni cu inel pentru carabiniera

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *sarma de bobinaj tare si inelele de sarma pana la Ø 3.5 mm.Inelele pot fi indoite spre dreapta si spre stanga pana cand scula ajunge cu dintele corespunzator in ambele parti.*
- *partea inferioara a falcii este proiectata pentru blocarea obiectelor cu suprafata precisa si sensibila.*
- *clestii pot fi folositi pentru sertizarea terminalelor izolate*
- *dezizolarea cablurilor izolate de Ø 2.2 mm la Ø 3.0 mm.*
- *dezizolarea cablurilor izolate de Ø 3,5 mm la Ø 4,0 mm.*
- *taiere sarma de Ø 2.2 mm la Ø 4.0 mm.*
- *sertizare cabluri terminale pana la Ø 4.0 mm.*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

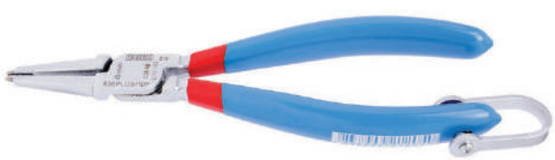
	L	A	B	C	D		
626259	160	9	16	49	2,5	0,141	**127,07**

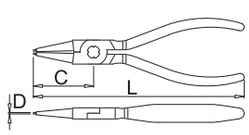
536PLUS/1DP-H

Cleste inel de siguranta, intern, varfuri drepte cu inel pentru carabiniera

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere duble de plastic*
- *in concordanta cu standardul DIN 5254 forma C*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

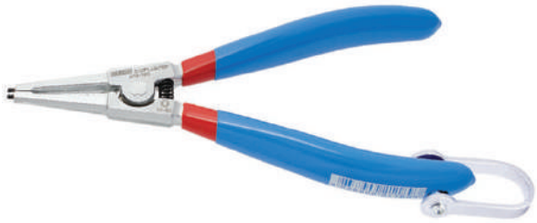
	L	C	D			
626387	180	52	1,8	19-60	0,192	**109,90**

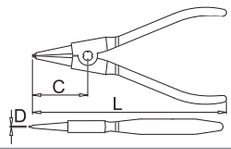
532PLUS/1DP-H

Cleste inel de siguranta, exterior, varfuri drepte cu inel pentru carabiniera

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere duble de plastic*
- *in concordanta cu standardul DIN 5254 forma A*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L	C	D			
626386	180	52	1,8	19-60	0,209	**117,63**

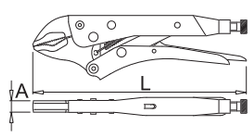
429/3-H

Cleste menghina cu falci simetrice cu inel pentru carabiniera

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *surub fosfatat*
- *falci simetrice*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L		A		
626163	250	35	12	0,596	**136,85**
626263	300	40	14	1,010	**187,49**

580/1BI-H

Foarfeca pentru cabluri cu inel pentru carabiniera

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *finisare: cromat in conformitate cu standardul EN12540*
- *cap polizat*
- *manere bimaterial pentru conditii grele*
- *pentru a asigura cel mai inalt nivel de siguranta, inelul metalic nitat nu este montat numai prin manerele din plastic, ci este atasat prin partea metalica a manerului sculei.*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

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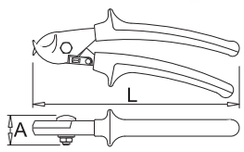


UNIOR

	L	A	Øī		
626202	230	22	17	0,444	205,30

466/1VDEDP-H

Cleste tais lateral pentru conditii grele izolat la 1000 V cu inel pentru carabiniera

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul ISO 5746 si EN 60900:2004*
- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L	A	B	C		
626964	180	11	28	21	0,303	131,60

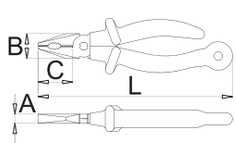
406/1VDEDP-H

Cleste combinat izolat la 1000 V cu inel pentru carabiniera

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *in conformitate cu standardul ISO 5746 si EN 60900:2004*
- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L	A	B	C		
626963	180	10	27	38	0,269	131,60

481/6-H

Cleste de tevi cu gura la 45° model Suedez cu inel pentru carabiniera

- *material:crom vanadiu*
- *tratat complet*
- *in conformitate cu standardul DIN 5234 forma B*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*
- *utilizare: strangerea, rotirea sau ancorarea suruburilor, piulitelor si flanselor*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.



UNIOR

		L			
626111	2”	555	70	2,330	334, 80

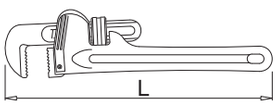
492/6-H

Cleste industrial pentru tevi cu inel pentru carabiniera

- *material: maner din aliaj special, foarte rezistent*
- *falci tratate, dintii tratati suplimentar prin inductie*
- *falci intershimbabile, fosfatate*
- *falca superioara reglabila*
- *maner vopsit*
- *utilizare: strangerea, rotirea sau ancorarea suruburilor,piulitelor si flanselor*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*
- *utilizare: strangerea, rotirea sau ancorarea suruburilor, piulitelor si flanselor*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

		L		L"		
626113	1.1/2"	250	49	10"	0,760	**143,27**

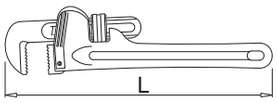
492AL-H

Cleste industrial din aluminiu pentru tevi cu inel pentru carabiniera

- *material: maner din aliaj de Aluminiu, foarte reziztent*
- *falci tratate, dintii tratati suplimentar prin inductie*
- *falci intershimbabile, fosfatate*
- *falca superioara reglabila*
- *maner vopsit*
- *utilizare: strangerea, rotirea sau ancorarea suruburilor,piulitelor si flanselor*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*
- *utilizare: strangerea, rotirea sau ancorarea suruburilor, piulitelor si flanselor*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

		L		L"		
626119	2"	330	60	14"	0,960	**215,47**
626120	2.1/2"	410	76	18"	1,560	**295,06**
626121	3"	555	89	24"	2,450	**382,96**

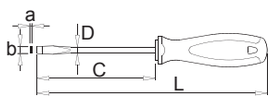
605TBI-H

Surubelnita lata cu maner trimaterial cu inel pentru carabiniera

- *lama:otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner :forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	a x b	C	L	D		
626233	0,4 x 2,5	75	160	2,5	0,034	**41,11**
626234	0,5 x 3,0	80	165	3	0,035	**41,25**
626235	0,8 x 4,0	100	185	4	0,041	**47,04**
626236	1,0 x 5,5	125	225	5,5	0,070	**52,39**
626237	1,2 x 6,5	150	260	6	0,103	**58,04**
626238	1,2 x 8,0	175	295	7	0,143	**64,90**
626239	1,6 x 10,0	200	320	8	0,173	**70,78**

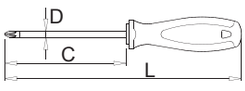
615TBI-H

Surubelnita Phillips cu maner trimaterial cu inel pentru carabiniera

- *lama:otel crom vanadium molibden tratata integral*
- *lama cromata, varful brunat*
- *maner :forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	+	C	L	D		
626241	PH 1	80	180	4	0,060	**44,71**
626242	PH 2	100	210	6	0,094	**52,64**
626243	PH 3	150	270	8	0,154	**62,12**

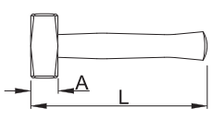
817-H

Ciocan cu fete paralelipipedice cu inel pentru carabiniera

- *material: otel special pentru scule*
- *forjat*
- *fetele de lovire tratate prin inductie*
- *suprafata acoperita*
- *conform standardului DIN 6475*
- *inel metalic nituit, care nu este detasabil*
- *greutatea este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*
- *maner armat cu 4 bare de otel de arc care ruleaza complet prin maner.*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	gr	L	A		
627542	1800	300	40	2,297	338,78

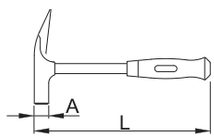
805A-H

Ciocan dulgher cu inel pentru carabiniera

- *material: otel special pentru scule*
- *forjat*
- *fetele de lovire tratate prin inductie*
- *suprafata acoperita*
- *maner metalic tubular cromat, cu maner din plastic*
- *conform standardului DIN 7239*
- *inel metalic nituit, care nu este detasabil*
- *greutatea este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	gr	L	A		
626164	550	320	21	0,825	196,83

806-H

Ciocane cu capete rotunde cu inel pentru carabiniera

- *material: otel special pentru scule*
- *forjat*
- *fetele de lovire tratate prin inductie*
- *suprafata acoperita*
- *inel metalic nituit, care nu este detasabil*
- *greutatea este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*
- *maner armat cu 4 bare de otel de arc care ruleaza complet prin maner.*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	gr	L		
627543	680	350	1,203	249,53

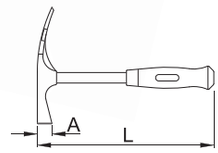
809-H

Ciocan zidar cu inel pentru carabiniera

- *material: otel special pentru scule*
- *forjat*
- *fetele de lovire tratate prin inductie*
- *suprafata acoperita*
- *maner metalic tubular cromat, cu maner din plastic*
- *inel metalic nituit, care nu este detasabil*
- *greutatea este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	gr	L	A		
626114	650	300	20	0,851	177,86

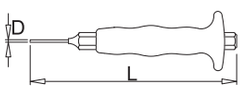
641/6HS-H

Dorn cu maner de protectie cu inel pentru carabiniera

- *material: crome vanadium*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *maner ergonomic rezistent bimaterial*
- *in concordanta cu standard DIN 6450*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	D	L	⬢		
626327	2	150	10	0,081	**56,24**
626328	3	150	10	0,076	**56,29**
626329	4	150	10	0,079	**56,29**
626330	5	150	10	0,083	**56,29**
626331	6	150	10	0,086	**56,29**
626332	8	150	12	0,099	**57,99**

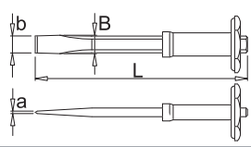
660/6HS-H

Dalta lata cu maner de protectie cu inel pentru carabiniera

- *material: crome vanadium*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *executie conform standardului DIN 6453*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L	a x b	B		
626195	250	26 x 4	24	0,615	**107,42**

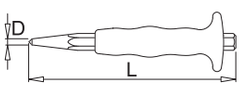
642/6HS-H

Punctator cu maner de protectie cu inel pentru carabiniera

- *material: crome vanadium*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *maner ergonomic rezistent bimaterial*
- *in concordanta cu standard DIN 7250*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	D	L	⬢		
626342	5	120	12	0,083	**59,98**

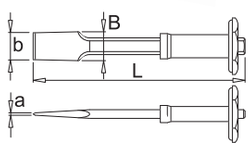
666/6AHS-H

Dalta lata cu maner de protectie cu inel pentru carabiniera

- *material: crome vanadium*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L	a x b	B		
626196	240	28 x 3	28	0,459	**101,04**

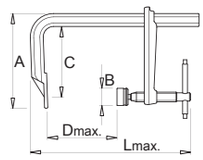
705/2MH-H

Menghina pentru conditii grele cu inel pentru carabiniera

- *falca glisanta este forjata din otel special, tratata si acoperita galvanic*
- *partea mobila este interschimbabila asigurand strangeri ale pieselor profilate.*
- *filetul executat prin rulareasigura o miscare usoara si o forta maxima de strangere*
- *partea mobila, surubul si manerul sunt protejate impotriva coroziunii*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	Dī	C	Lī	A	B		
626231	300	140	550	180	40	2,300	**308,00**

750/1-H

Rama bomfaier cu inel pentru carabiniera

- *constructie usoara cu design al manerului ergonomic*
- *trei pozitii ale lamei*
- *max 5 lame de schimb depozitate in rama*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*
- *utilizare: strangerea, rotirea sau ancorarea suruburilor, piulitelor si flanselor*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.



UNIOR

	L	L"	L1		
626115	407	12"	310	0,780	**203,74**

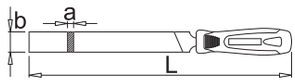
760HB-H

Pila lata bastard cu maner cu inel pentru carabiniera

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

		L	a x b		
626260	300	425	6,5 x 30	2,300	**83,04**

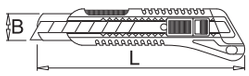
556A-H

Cutter cu inel pentru carabiniera

- *maner bimaterial*
- *3 lame interschimbabile automat in interior*
- *lama cu 13 lame de schimb*
- *lama din otel carbon aliat*
- *inel metalic nituit, care nu este detasabil*
- *greutatea sculei este marcata pe fiecare scula*
- *inelele de pe uneltele sunt suficient de mari pentru a accepta 2 carabiniere*

Uneltele pentru lucru la inaltime UNIOR au fost proiectate pentru a pastra functiile de baza, ergonomia si utilitatea instrumentelor, sau pentru a le reduce in cea mai mica masura posibila.
Glisarea inelului metalic nu impiedica utilizarea instrumentului la nici un capat.





UNIOR

	L	B		
626289	160	18	0,099	**46,75**



1107

Centura de scule

- *trei puncte de inchidere / securizare*
- *centura reglabila la max. 114 cm / 45 "*
- *incarcare maxima de 30 kg*
- *6 inele metalice*
- *confortabil cand este incarcat*
- *nu este adecvat pentru protectia personala*



	L max		
627332	114	0,280	437,66

1108DD

Cordon elastic cu inel si siret TL-E-DD

- *incarcare maxima de 5 kg*
- *elastic: se intinde pana la 1,9 m*
- *inele metalice la ambele capete*
- *nu este adecvat pentru protectia personala*



		L	L1		
627335	1 m / 5 kg	1000	1900	0,108	168,98

1108DS

Cordon elastic cu inele TL-E-DS

- *incarcare maxima de 5 kg*
- *elastic: se intinde pana la 1,9 m*
- *inel de metal rotativ pe capatul de lucru*
- *nu este adecvat pentru protectia personala*



		L	L1		
627333	1 m / 5 kg	1000	1900	0,132	183,12

1109

Cremaliera cu inel de blocare

- *finisare: zincare*
- *cu inel de blocare*
- *carabiniera 6 x 60 nu se utilizeaza cu unelte peste 0,8 kg*
- *nu este adecvata pentru protectia personala*



627336	6 x 60	0,030	10,66
627337	8 x 80	0,065	17,70

1108DB

Cordon elastic cu inel si siret TL-E-DB

- *incarcare maxima de 5 kg*
- *elastic: se intinde pana la 1,9 m*
- *siret de prindere pe un capat, adecvat pentru utilizarea cu unelte izolate*
- *nu este adecvat pentru protectia personala*



		L	L1		
627334	1 m / 5 kg	1000	1900	0,098	168,98

1110

Dispozitiv sustinere

- *lungime pana la 107 cm / 42 "*
- *incarcare maxima de 1,6 kg*
- *forta de retragere 0,2 kg*
- *retragere preventiva*
- *nu este adecvat pentru protectia personala*



	LT			
627338	1070	1,07 m / 1,6 kg	0,091	679,02



SCULE ANTI-EXPLOZIE

Categorii produse

Chei, Clesti, Surubelnite, Capete chei tubulare si accesorii, Foarfeci tabla, Ciocane, Cutite si topoare, Lopeti si tarnacoape, Spacluri si raschete, Dalti, dornuri, punctatoare, Ace de trasat, Leviere, Perii sarma, Fierastraie, Palane, Menghine de banc, nicovale si prese, Seturi scule, Truse scule

Aplicatii

Industria chimica, Industria petrochimica, Industria farmaceutica, Industria hartiei, Industria alcoolului, Industria vopselei si emailului, Industria cernelii, Rafinarii, Fabrici de munitie, Industria nucleara, Telecomunicatii, Companii de electricitate, Industria electronica, Marina.

Intretinere

Sculele antiex pot capata deformari usoare din cauza uzurii sau a folosirii incorecte. Deformarile se indeparteaza prin reascutirea celor doua fete a partilor ascutite a sculelor, prin pilire, polizare sau reascutire. Reascutirea prin polizare se face sub jet de apa, evitand incalzirea sculelor la peste 200 grade C. Supraincalzirea va afecta duritatea sculelor si le va face inutilizabile.

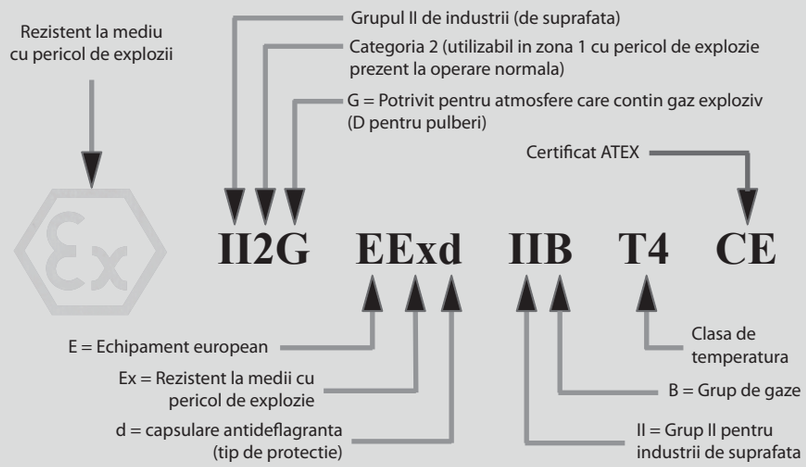
METALMINOTTI
COOPER AND UNCONVENTIONAL COOPER ALLOYS

AMPCO SAFETY TOOLS®

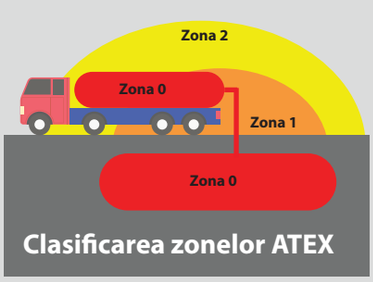
(ATmosfere EXplozibile - 94/9/EC)
standardul european ce reglementeaza conditiile de utilizare a echipamentelor in zone cu pericol de explozie

Clasificare a zonelor de pericol i aloc rii categoriilor de echipament pentru zonele relevante			
Pericol	**Pericol permanent** (> de 1000 ore/an)	**Pericol prezent la operarea normala** (intre 10 si 1000 ore/an)	**Pericol prezent rar** (<10 ore/an)
Gaze	ZONA 0	ZONA 1	ZONA 2
Praf	ZONA 20	ZONA 21	ZONA 22
Categorie echipament	1	2	3

In baza ATEX, eticheta de identificare a produsului (Device ID) trebuie sa contina informatii despre zonele, cu pericol potential de explozie, unde se impune a fi utilizat (categoria de produs):



Gruparea gazelor	
Gaz tipic/material	**Grup gaz**
Metan	I
Acetilea	IIC
Hidrogen	IIC
Etilena	IIB
Propan	IIA
Pulbere metalica	-
Pulbere de carbune	-
Pulbere de cereale	-



Zona 0 - interiorul cisternei
Zona 1 - zona de productie
Zona 2 - zona de depozitare

Zona cu pericol de explozie

Substantele periculoase sunt acele substante utilizate sau prezente care, daca nu sunt controlate corespunzator, pot sa conduca la ranirea oamenilor ca urmare a unui incendiu sau a unei explozii. Atmosfera potenaial exploziva este creata atunci cand apare posibilitatea unei explozii, ca urmare a realizarii unui amestec gaz/aer, vapori/aer, praf/aer sau alte combinatii inflamabile. O explozie reprezinta o reactie chimica brusca a unui material inflamabil cu oxigenul insotita de eliberarea unei cantitati mari de energie. Pentru a se produce un incendiu sau o explozie trebuie sa existe 3 conditii:
1. Material inflamabil (in cantitati suficiente) 2. Oxigen (in aer) 3. Sursa de aprindere Materiale inflamabile pot fi prezente sub forma de gaze, vapori sau praf în medii de extractie, manipulare si depozitare combustibili, de utilizare solventi inflamabili, stocare de produse inflamabile precum vopsele, fabricare si distribuire de pulberi (ex. faina) etc.
Protectia primara – se refera la toate precautiile necesare pentru prevenirea crearii unei atmosfere explozive. Aceasta se poate obtine prin evitarea utilizarii substantelor inflamabile, limitarea concentratiilor, ventilare naturala sau artificiala, etc.
Protectia secundara – sunt masurile de prevenire a aprinderii unei atmosfere explozive (eliminarea surselor de aprindere), daca pericolul de explozie nu poate fi complet sau macar partial înlaturat prin masurile de protectie primare.

Cod T	Temperatura maxima a suprafetei
T1	450°C
T2	300°C
T3	200°C
T4	135°C
T5	100°C
T6	85°C

Clase de temperatura

Temperatura de aprindere a unui gaz sau lichid inflamabil este cea mai joasa temperatura a suprafetei in contact la care se produce aprinderea amestecului gaz/aer sau vapori/aer. Gazele si vaporii inflamabili se pot clasifica in clase de temperatura prin utilizarea temperaturilor de aprindere.Temperatura maxima a suprafetei aparatelor electrice trebuie sa fie intotdeauna mai mica decat temperatura de aprindere specifica mediului unde se utilizeaza. Desigur ca echipamentele dintr-o clasa superioara de temperatura (ex. T5) pot fi utilizate în aplicaaii unde sunt necesare echipamente dintr-o clasa de temperatura mai joasa (ex. T3).

Chei 742
Capete chei tubulare si accesorii 745
Clesti 747
Foarfeci 748
Surubelnite 748
Spacluri, raclete 748
Ciocane 749
Dalti, punctatoare, dornuri 750
Leviere 751
Lopeti, tarnacoape 752
Perii 752
Fierastraie 753
Menghine, nicovale, palane 753
Truse de scule 753



001

Cheie fixa dubla drapta

• *material: MZW*





METALMINOTTI

	mm	L		
001 0607	6 x 7	125	50	118.94
001 0809	8 x 9	145	50	123.52
001 1011	10 x 11	160	75	123.52
001 1213	12 x 13	175	100	123.52
001 1415	14 x 15	210	220	134.49
001 1417	14 x 17	210	220	139.07
001 1617	16 x 17	210	300	149.14
001 1719	17 x 19	225	300	161.02
001 1819	18 x 19	225	300	172.93
001 1922	19 x 22	245	300	184.82
001 1924	19 x 24	245	300	184.82
001 2022	20 x 22	245	300	193.66
001 2123	21 x 23	245	300	203.13
001 2224	22 x 24	245	350	212.28
001 2426	24 x 26	270	600	221.42
001 2427	24 x 27	270	600	230.57
001 2528	25 x 28	270	600	239.72
001 2729	27 x 29	270	600	247.04
001 2730	27 x 30	270	600	255.27
001 2732	27 x 32	305	800	292.78
001 3032	30 x 32	305	800	329.38
001 3036	30 x 36	330	1150	365.98
001 3236	32 x 36	330	1150	402.59
001 3436	34 x 36	330	1150	439.18
001 3538	35 x 38	340	1300	439.18
001 3638	36 x 38	360	1350	475.77
001 3641	36 x 41	360	1350	530.67
001 4146	41 x 46	380	1400	585.58
001 4650	46 x 50	410	1700	805.15
001 5055	50 x 55	470	2300	1189.44
001 5560	55 x 60	570	5200	1601.16
001 6065	60 x 65	570	5200	1656.07

002

Cheie fixa simpla

• *material: MZW*





METALMINOTTI

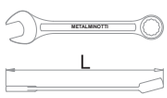
	mm	L		
002 0006	6	110	30	125.80
002 0007	7	110	30	125.80
002 0008	8	110	30	125.80
002 0009	9	110	40	125.80
002 0010	10	110	40	131.52
002 0011	11	110	50	131.52
002 0012	12	125	50	137.25
002 0013	13	140	100	142.96
002 0014	14	140	100	142.96
002 0015	15	140	100	154.40
002 0016	16	140	100	165.84
002 0017	17	155	150	177.26
002 0018	18	155	150	188.71
002 0019	19	155	150	200.15
002 0020	20	155	150	209.30
002 0021	21	215	200	219.58
002 0022	22	215	300	228.74
002 0023	23	215	300	237.90
002 0024	24	215	300	248.18
002 0025	25	215	300	258.47
002 0026	26	215	300	268.76
002 0027	27	240	400	274.49
002 0028	28	240	400	303.09
002 0029	29	240	400	331.67
002 0030	30	240	500	360.26
002 0032	32	240	600	388.85
002 0036	36	240	900	503.22
002 0038	38	240	900	526.09
002 0041	41	335	1100	594.72
002 0046	46	410	1300	720.52
002 0050	50	410	1400	1029.32
002 0055	55	410	2000	1280.93
002 0060	60	600	3400	1429.61
002 0065	65	600	3400	1578.29

023

Cheie combinata

• *material: MZW*





METALMINOTTI

	mm	L		
023 0010	10	150	60	155.54
023 0011	11	150	70	155.54
023 0012	12	190	110	164.69
023 0013	13	190	110	173.84
023 0014	14	190	110	182.99
023 0015	15	210	200	192.14
023 0016	16	210	200	201.28
023 0017	17	210	200	201.28
023 0018	18	230	220	210.43
023 0019	19	230	220	219.58
023 0020	20	255	220	228.74
023 0021	21	255	350	237.90
023 0022	22	255	350	247.04
023 0023	23	255	350	256.19
023 0024	24	270	400	274.49
023 0027	27	280	500	356.83
023 0030	30	300	650	420.88
023 0032	32	310	650	448.33
023 0036	36	330	850	658.76
023 0041	41	405	2000	914.95
023 0046	46	405	2000	969.85

004

Cheie inelara dubla drapta

• *material: MZW*





METALMINOTTI

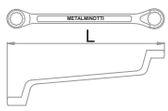
	mm	L		
004 0607	6 x 7	120	20	109.79
004 0810	8 x 10	130	30	114.37
004 0911	9 x 11	145	30	114.37
004 1315	13 x 15	185	70	125.35
004 1417	14 x 17			129.92
004 2123	21 x 23			182.99
004 2426	24 x 26	260	200	210.43
004 2528	25 x 28	270	240	228.74
004 2729	27 x 29			274.49
004 5055	50 x 55	420	1500	1701.81
004 5560	55 x 60	480	2200	1829.91
004 6065	60 x 65	500	3200	1939.69

003

Cheie inelara dublu cotita

• *material: MZW*





METALMINOTTI
COOPER AND UNCONVENTIONAL COOPER ALLOYS

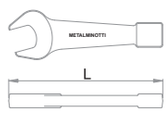
	mm	L		
003 0607	6 x 7	160	80	**141.82**
003 0809	8 x 9	160	80	**155.54**
003 1011	10 x 11	175	100	**164.69**
003 1213	12 x 13	190	120	**173.84**
003 1415	14 x 15	220	150	**182.99**
003 1416	14 x 16	220	200	**192.14**
003 1417	14 x 17	240	200	**201.28**
003 1617	16 x 17	240	200	**219.58**
003 1618	16 x 18	240	200	**219.58**
003 1719	17 x 19	265	300	**228.74**
003 1819	18 x 19	265	300	**228.74**
003 1922	19 x 22	280	400	**247.04**
003 2022	20 x 22	280	400	**247.04**
003 2123	21 x 23	290	400	**265.34**
003 2224	22 x 24	290	400	**283.63**
003 2426	24 x 26	330	600	**301.93**
003 2427	24 x 27	330	600	**329.38**
003 2528	25 x 28	330	600	**347.68**
003 2629	26 x 29	330	600	**365.98**
003 2729	27 x 29	330	650	**393.43**
003 2730	27 x 30	330	850	**411.74**
003 2732	27 x 32	350	850	**439.18**
003 3032	30 x 32	350	850	**466.62**
003 3236	32 x 36	415	1200	**494.08**
003 3641	36 x 41	415	1300	**576.43**
003 4146	41 x 46	415	1450	**841.75**
003 4650	46 x 50	430	1450	**1097.94**
003 5060	50 x 60	430	1550	**1372.42**

047

Cheie fixa de soc

• *material: MZW*





METALMINOTTI
COOPER AND UNCONVENTIONAL COOPER ALLOYS

	mm	L		
047 0024	24	160	400	**420.88**
047 0027	27	160	400	**439.18**
047 0030	30	180	700	**457.47**
047 0032	32	180	700	**484.92**
047 0036	36	180	700	**558.12**
047 0041	41	240	1300	**741.11**
047 0046	46	240	1300	**841.75**
047 0050	50	280	2800	**1097.94**
047 0055	55	280	2800	**1143.69**
047 0060	60	280	2800	**1308.38**
047 0065	65	340	4800	**1482.23**
047 0070	70	340	4800	**1665.22**
047 0075	75	340	4800	**1848.21**
047 0080	80	410	6800	**2360.58**
047 0085	85	410	6800	**2580.17**
047 0090	90	410	6800	**2827.20**
047 0095	95	430	9500	**3065.10**
047 0100	100	430	9500	**3495.11**
047 0105	105	430	9500	**4080.68**
047 0110	110	500	17200	**4446.67**
047 0115	115	550	17200	**4821.79**
047 0120	120	550	17200	**5215.22**
047 0125	125	550	21000	**6038.68**
047 0130	130	600	21000	**6862.13**
047 0135	135	600	21000	**7685.58**
047 0140	140	600	29000	**8234.57**
047 0145	145	650	29000	**8692.04**
047 0150	150	650	29000	**9222.71**

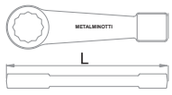
048

Cheie inelara de soc

• *material: MZW*







METALMINOTTI
COOPER AND UNCONVENTIONAL COOPER ALLOYS

			L		
048 0019	19		150	350	**283.63**
048 0022	22		150	350	**283.63**
048 0024	24		150	350	**320.24**
048 0027	27		150	350	**365.98**
048 0030	30		170	600	**411.74**
048 0032	32		170	600	**475.77**
048 0034	34				**596.24**
048 0036	36		170	600	**539.82**
048 0038	38				**596.24**
048 0041	41		230	1300	**613.02**
048 0046	46		230	1300	**759.42**
048 0050		50	265	1800	**896.65**
048 0055		55	265	1800	**1052.20**
048 0060		60	300	3300	**1509.67**
048 0065		65	300	3300	**1665.22**
048 0070		70	320	4700	**1829.91**
048 0075		75	320	4700	**1985.44**
048 0080		80	320	4700	**2131.84**
048 0085		85	360	6200	**2470.37**
048 0090		90	360	6200	**2836.35**
048 0095		95	360	6200	**3184.03**
048 0100		100	390	8200	**3312.12**
048 0105		105	390	8200	**3440.22**
048 0110		110	390	8200	**3568.31**
048 0115		115	430	10000	**3787.90**
048 0120		120	430	10000	**4007.49**
048 0125		125	430	10000	**4227.08**
048 0130		130	460	12500	**4510.71**
048 0135		135	460	12500	**4794.35**
048 0140		140	460	12500	**5077.98**
048 0145		145	500	15000	**5379.92**
048 0150		150	500	15000	**5672.70**
048 0155		155	500	15000	**5992.92**

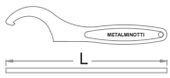


050

Cheie cu gheara fixa

• *material: MZW*





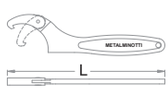
	mm	L		
050 3436	34 / 36	170	100	**274.49**
050 4042	40 / 42	170	100	**274.49**
050 4550	45 / 50	205	150	**347.68**
050 5255	52 / 55	205	150	**347.68**
050 5862	58 / 62	240	310	**420.88**
050 6875	68 / 75	240	310	**420.88**
050 8090	80 / 90	280	390	**530.67**
050 9510	95 / 100	280	390	**530.67**
050 9700	110 / 115	330	660	**823.45**

063

Cheie cu gheara articulata

• *material: MZW*





	mm	L		
063 3810	38 / 100	300	600	**512.37**

064

Cheie cotita cu profil patrat

• *material: MZW*



	mm	L		
064 0020	20	300	1000	**402.59**
064 0022	22	300	1300	**475.77**
064 0024	24	350	1800	**548.97**
064 0027	27	350	2300	**658.76**
064 0032	32	400	3700	**887.51**

065

Cheie universala

• *material: MZW*



	mm	L		
065 0380	380	380	1280	**603,87**

043

Cheie cu deschideri multiple

• *material: MZW*



	mm	L		
043 0380	380	380	1280	**1372.42**

069

Cheie pentru valve

• *material: MZW*



	Ø	mm	L	l1	l2		
069 0400	16	400	380	65	40	1280	**521.52**

060

Cheie locas hexagonal

• *material: MZW*



	mm		
060 0015	1.5	5	**91.50**
060 0020	2	5	**91.50**
060 0025	2.5	5	**91.50**
060 0030	3	5	**91.50**
060 0040	4	10	**91.50**
060 0050	5	15	**100.65**
060 0060	6	25	**109.79**
060 0070	7	50	**118.94**
060 0080	8	60	**128.09**
060 0090	9	70	**141.82**
060 0100	10	100	**173.84**
060 0110	11	130	**173.84**
060 0120	12	165	**210.43**
060 0130	13	200	**247.04**
060 0140	14	250	**292.78**
060 0170	17	420	**384.27**
060 0180	18	480	**457.47**
060 0190	19	600	**503.22**
060 0220	22	950	**539.82**
060 0240	24	1250	**585.58**
060 0270	27	1800	**695.36**
060 0300	30	2500	**942.40**
060 0320	32	3100	**1216.89**
060 0360	36	4500	**1665.22**

005

Cheie tubulara pipa

• *material: MZW*



	mm				
005 0008	8	115	55	150	**521.52**
005 0009	9	120	55	150	**521.52**
005 0010	10	125	55	200	**530.67**
005 0011	11	130	55	200	**530.67**
005 0012	12	140	55	300	**530.67**
005 0013	13	150	55	300	**548.97**
005 0014	14	160	55	400	**548.97**
005 0017	17	200	60	600	**567.27**
005 0019	19	210	60	600	**622.17**
005 0022	22	245	60	600	**841.75**
005 0024	24	270	65	650	**914.95**
005 0027	27	270	65	650	**978.99**
005 0030	30	300	65	800	**1043.05**
005 0032	32	310	65	800	**1079.64**
005 0036	36	320	80	1300	**1161.98**
005 0041	41	320	80	1300	**1299.23**

100

Set chei locas hexagonal 2-12 mm / 10 piese

• *material: MZW*



METALMINOTTI

	mm	L		
100 1000	2 - 12 / 10	290	600	**1775.00**

060 (2, 3, 4, 5, 6, 7, 8, 9, 10, 12)

012

Cheie reglabila cu rola

• *material: MZW*





METALMINOTTI

	mm			
012 2000	200	22	245	**658.76**
012 2500	250	27	920	**914.95**
012 3000	300	30	1320	**1097.94**
012 3800	380	44	1700	**1646.92**

061

Cheie reglabila pentru tevi

• *material: MZW*





METALMINOTTI

	mm			
061 3500	350	60	1000	**1738.41**
061 4500	450	75	1600	**2081.51**
061 6000	600	100	2500	**2744.86**
061 9000	900	140	5200	**5489.71**

062

Cheie cu profil triunghiular

• *material: MZW*



METALMINOTTI

		L		
062 0004	M 4	95	80	**256.19**
062 0005	M 5	110	100	**256.19**
062 0006	M 6	115	170	**301.93**
062 0008	M 8	125	280	**347.68**
062 0010	M 10	140	390	**411.74**
062 0012	M 12	160	700	**503.22**
062 0016	M 16	180	980	**731.96**
062 0020	M 20	200	2100	**850.90**
062 0024	M 24	220	3100	**1262.63**

042

Capete chei tubulare hexagonale 1/2"

• *material: MZW*



METALMINOTTI

042 0812	8	120	**151.88**
042 0912	9	130	**151.88**
042 1012	10	120	**151.88**
042 1112	11	120	**158.29**
042 1212	12	120	**158.29**
042 1312	13	120	**158.29**
042 1412	14	120	**170.18**
042 1512	15	120	**170.18**
042 1612	16	120	**170.18**
042 1712	17	170	**176.59**
042 1812	18	180	**176.59**
042 1912	19	180	**176.59**
042 2012	20	180	**200.37**
042 2112	21	180	**200.37**
042 2212	22	180	**200.37**
042 2312	23	180	**236.97**
042 2412	24	180	**236.97**
042 2512	25	190	**267.16**
042 2612	26	190	**267.16**
042 2712	27	200	**297.36**
042 2812	28	200	**297.36**
042 2912	29	200	**327.56**
042 3012	30	220	**327.56**
042 3212	32	320	**356.83**
042 7012	5/16"		**182.99**
042 7112	3/8"		**192.14**
042 7212	7/16"		**201.28**
042 7312	1/2"		**201.28**
042 7412	9/16"		**201.28**
042 7512	19/32"		**210.43**
042 7612	5/8"		**210.43**
042 7712	11/16"		**210.43**
042 7812	3/4"		**210.43**
042 7912	25/32"		**228.74**
042 8012	13/16"		**228.74**
042 8112	7/8"		**228.74**
042 8212	15/16"		**237.90**
042 8312	1"		**301.93**
042 8412	1.1/16"		**338.53**
042 8512	1.1/8"		**338.53**
042 8612	1.1/4"		**393.43**
042 8712	1.1/2"		**430.03**

042

Capete chei tubulare hexagonale 3/4"

• *material: MZW*



METALMINOTTI

042 1034	10	120	**265.34**
042 1134	11	120	**265.34**
042 1234	12	120	**265.34**
042 1334	13	130	**265.34**
042 1434	14	130	**265.34**
042 1534	15	130	**265.34**
042 1634	16	170	**265.34**
042 1734	17	170	**265.34**
042 1834	18	180	**265.34**
042 1934	19	180	**265.34**
042 2034	20	180	**265.34**
042 2134	21	180	**265.34**
042 2234	22	180	**265.34**

042 2334	23	180	265.34
042 2434	24	180	265.34
042 2534	25	190	265.34
042 2634	26	200	265.34
042 2734	27	200	265.34
042 2834	28	200	301.93
042 2934	29	230	329.38
042 3034	30	230	329.38
042 3234	32	450	356.83
042 3434	34	450	402.59
042 3534	35	450	439.18
042 3634	36	450	512.37
042 3834	38	490	558.12
042 4134	41	600	594.72
042 4634	46	600	768.56
042 5034	50	650	924.10
042 5534	55	650	1299.23
042 5834	58	750	1463.91
042 6034	60	750	1527.97
042 6534	65	760	1839.06
042 7034	70	870	2131.84
042 7534	75	1000	2461.22
042 8034	80	1120	2772.30

042

Capete chei tubulare hexagonale 1"

• *material: MZW*



METALMINOTTI

042 7001	70	3448.48
042 7501	75	3629.11
042 8001	80	3793.33
042 8501	85	4023.22
042 9001	90	4433.76
042 1001	100	5911.67

423

Antrenor cu clichet

• *material: MZW*



METALMINOTTI

423 0012	1/2"	250	650	1363.28
423 0025	1"	420	2000	2360.58
423 0034	3/4"	420	1950	2360.58

422

Antrenor articulat

• *material: MZW*



METALMINOTTI

422 0012	1/2"	215	350	805.15
422 0034	3/4"	375	1000	1262.63

425

Antrenor cu parghie glisanta

• *material: MZW*



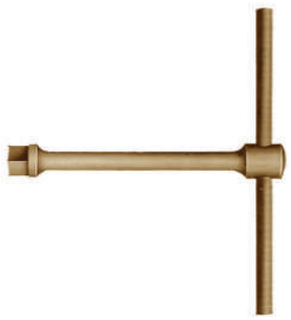
METALMINOTTI

425 0012	1/2"	320	550	411.74
425 0034	3/4"	500	1600	832.60

421

Antrenor in T cu parghie glisanta

• *material: MZW*



METALMINOTTI

421 0012	1/2"	245	500	759.42
421 0034	3/4"	260	850	978.99

426

Prelungitor

• *material: MZW*



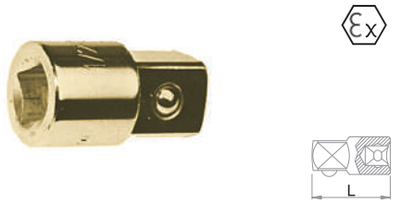
METALMINOTTI

426 0012	1/2"	125	200	475.77
426 0121	1/2"	250	400	704.52
426 0034	3/4"	200	600	759.42
426 0134	3/4"	380	1100	1171.14

424

Adaptor

• *material: MZW*



METALMINOTTI

424 0012	1/2"	3/4"	50	200	274.49
424 0034	3/4"	1/2"	50	200	265.34

300

Trusa capete tubulare si accesorii 16 piese 1/2"

• *material: MZW*



METALMINOTTI

	mm	L		
300 1000	10 - 32 / 16	300	4700	**5520.82**

423 (250 mm), **422** (215 mm), **425** (320 mm)
042 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32)

006

Cleste combinat

• *material: CuBe*



METALMINOTTI

	mm		
006 2000	200	325	**1061.35**

066

Cleste cu tais lateral

• *material: CuBe*



METALMINOTTI

	mm		
066 1600	160	100	**969.85**

007

Cleste cu varfuri rotunde

• *material: CuBe*



METALMINOTTI

	mm		
007 1600	160	135	**585.58**

008

Cleste cu varfuri plate

• *material: CuBe*



METALMINOTTI

	mm		
008 1600	160	150	**585.58**

036

Cleste pentru scos cuie

• *material: CuBe*



METALMINOTTI

	mm		
036 2000	200	250	**1052.20**

068

Cleste varfuri semirotunde (telefonisti)

• *material: CuBe*



METALMINOTTI

	mm		
068 1800	180	150	**667.92**

013

Cleste reglabil pentru instalatori

• *material: CuBe*



METALMINOTTI

	mm	⬣		
013 2400	240	40	305	**850.90**

014

Cleste pentru tevi de gaz

• *material: CuBe*



METALMINOTTI

	mm	⬣		
014 2100	210	40	370	**869.20**

067

Foarfeca pentru tabla

• *material: MZW*



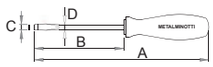
	mm		
067 2800	280	700	**759.42**

021

Surubelnita cu profil lat

• *material: CuBe*





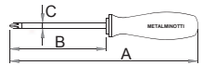
	A	B	C	D		
021 0150	150	60	4	4	50	**91.50**
021 0180	180	85	5	5	60	**115.29**
021 0220	220	115	6	6	80	**145.49**
021 0250	250	130	6	6	100	**182.08**
021 0280	280	160	9	8	180	**292.78**
021 0300	300	170	10	8	190	**329.38**

059

Surubelnita cu profil Phillps

• *material: CuBe*





	Phillips	A	B	C		
059 1150	1	150	60	4,5	50	**115.29**
059 2200	2	200	95	6	65	**164.69**
059 3250	3	250	130	8	110	**278.15**
059 4300	4	300	170	10	200	**466.62**

045

Rascheta

• *material: MZW*



	mm	L		
045 5400	20	540	450	**475.77**

072

Spaclu lung

• *material: Cu Be*



	mm	L		
072 2800	350	380	90	**371,00**

040

Rascheta cotita

• *material: MZW*



	mm	L		
040 0255	255	255	480	**265.34**

044

Spaclu rigid

• *material: MZW*



	mm		
044 0030	30	100	**192.14**
044 0040	40	120	**201.28**
044 0060	60	190	**228.74**
044 0080	80	200	**274.49**
044 0110	100	250	**301.93**

071

Spaclu rigid

• *material: MZW*



	mm		
071 0040	40	120	**375.12**
071 0060	60	180	**594.72**
071 0080	80	200	**914.95**
071 0100	100	220	**988.14**

073

Rascheta cu lama dreapta

• *material: MZW*



	mm	L		
073 3150	315	315	210	**219.58**

074

Rascheta cu lama triunghiulara

• *material: MZW*



	mm	L		
074 3100	310	310	210	**328.60**

055

Rascheta de mana

• *material: MZW*



	mm	L		
055 8000	80	225	450	**260.76**

070

Rascheta cu varf triunghiular

• *material: MZW*



	mm	L		
070 5000	440	440	600	**640.46**

053

Rascheta de perete

• *material: MZW*



	mm	L		
053 1000	100	100	900	**448.33**
053 1500	150	150	1300	**613.02**

076

Rascheta cu varf concav

• *material: MZW*



	mm	L		
076 1000	100	100	900	**539.82**
076 1500	150	150	1350	**695.36**

077

Rascheta pentru zidarie

• *material: MZW*



	mm	L		
077 4800	80	480	1250	**539.82**

015

Ciocan lacatuserie

• *material: MZW*



	G		
015 0300	300	300	**228.74**
015 0500	500	500	**279.07**
015 0800	800	800	**384.27**
015 1000	1000	1000	**457.47**
015 1500	1500	1500	**622.17**
015 2000	2000	2000	**768.56**

018

Baros

• *material: MZW*



	G	tip maner		
018 0050	500	maner scurt	500	**316.57**
018 0100	1000	maner scurt	1000	**457.47**
018 0150	1500	maner scurt	1500	**594.72**
018 0200	2000	maner scurt	2000	**768.56**
018 0300	3000	maner lung	3000	**1024.76**
018 0400	4000	maner lung	4000	**1280.93**
018 0500	5000	maner lung	5000	**1518.82**
018 0600	6000	maner lung	6000	**1848.21**
018 0800	8000	maner lung	8000	**2406.32**
018 1000	10000	maner lung	10000	**2808.90**

019

Ciocan de abataj

• *material: MZW*



	G		
019 0500	500	500	**347.68**

017

Ciocan cu o fata semirotunda

• *material: MZW*



	G		
017 0150	150	150	**283.63**
017 0300	300	300	**329.38**
017 0500	500	500	**375.12**
017 0800	800	800	**475.77**
017 1000	1000	1000	**585.58**
017 1500	1500	1500	**768.56**
017 2000	2000	2000	**978.99**

016

Ciocan cu doua fete rotunde

• *material: MZW*



	G		
016 0300	300	300	**311.09**
016 0500	500	500	**402.59**
016 0900	900	900	**713.67**

046

Ciocan de nituit

• *material: MZW*



	G		
046 1000	1000	1000	**796.01**

024

Dalta cu varf lat

• *material: MZW*



	⬡	L		
024 0150	14	150	180	**133.58**
024 0175	17	175	330	**152.79**
024 0200	17	200	330	**171.09**
024 0250	17	250	580	**225.99**
024 0300	19	300	700	**314.75**
024 0350	22	350	1000	**347.68**
024 0400	24	400	1400	**448.33**
024 0450	24	450	1530	**503.22**

026

Dalta lunga cu varf lat

• *material: CuBe*



	⬡	L		
026 0150	14	150	170	**430.03**
026 0200	14	200	300	**521.52**
026 0250	17	250	550	**823.45**
026 0300	17	300	650	**1143.69**
026 0350	19	350	1000	**1418.17**
026 0400	22	400	1500	**2067.78**
026 0450	22	450	1700	**2360.58**

049

Unealta de calafuit

• *material: MZW*



	L		
049 2650	265	260	**439.18**

241

Dalta cu varf ascutit

• *material: MZW*



	⬡	L		
241 0150	14	150	180	**133.58**
041 0175	17	175	330	**152.79**
241 0200	17	200	330	**171.09**
241 0250	17	250	580	**225.99**
241 0300	19	300	700	**314.75**
241 0350	22	350	1000	**347.68**
241 0400	24	400	1400	**448.33**
241 0450	24	450	1530	**503.22**

041

Pana

• *material: MZW*



	A	L	H	
041 1050	50	100	10	**210.43**
041 1325	25	150	13	**173.84**
041 1330	30	150	13	**182.99**
041 1340	40	150	13	**219.58**
041 2040	40	230	20	**384.27**
041 4040	40	230	40	**731.96**

083

Dalta pentru ciment

• *material: MZW*



	L		
083 0039	390	3500	**1061.35**

087

Dalta pentru masini pneumatice

• *material: MZW*



	A	Ø	L		
087 4500	30	17,3	200	520	**1187.44**

084

Dalta cu varf ascutit pneumatica

• *material: MZW*



	⬡	L		
084 0450	25,4	450	1800	**1061.35**

088

Dalta pentru masini pneumatice

• *material: MZW*



METALMINOTTI

	A	■	L		
088 0140	30	13	140	180	**839.01**

085

Dalta pentru masini pneumatice

• *material: MZW*
• *dimensiuni coada: Ø40/Ø25x65 mm*



METALMINOTTI

	D	d	A	L		
085 3300	40	25	65	330	1300	**1134.54**
085 4300	40	25	65	430	1750	**1454.77**
085 5300	40	25	65	530	2150	**1738.41**

081

Dorn

• *material: MZW*



METALMINOTTI

	Ø	L		
081 0020	2	120	120	**155.54**
081 0030	3	120	120	**155.54**
081 0040	4	120	120	**155.54**
081 0050	5	120	120	**155.54**
081 0060	6	120	120	**201.28**
081 0080	8	150	200	**201.28**
081 0100	10	175	300	**370.55**
081 0120	12	175	450	**637.72**
081 0160	16	175	900	**710.92**
081 0200	20	250	1250	**753.00**
081 0250	25	250	2200	**807.90**

082

Dorn varf ac

• *material: MZW*



METALMINOTTI

	Ø	L		
082 0300	2	150	60	**175.67**
082 0400	3	150	140	**175.67**
082 0500	4	150	140	**236.97**
082 0600	5	150	120	**236.97**
082 0700	6	150	150	**236.97**
082 0800	8	150	190	**236.97**
082 1000	10	160	260	**236.97**
082 1200	12	180	330	**437.35**
082 1600	16	200	430	**528.84**

037

Punctator

• *material: CuBe*



METALMINOTTI

	mm	L		
037 0100	100	100	50	**219.58**
037 0145	145	145	60	**329.38**

090

Ac de trasat

• *material: CuBe*



METALMINOTTI

	mm	L		
090 1900	140	140	50	**587.40**

089

Dorn unghiular

• *material: MZW*



METALMINOTTI

	mm	L		
089 0300	300	300	600	**351.70**
089 0450	450	450	1000	**539.88**

079

Ranga

• *material: MZW*



METALMINOTTI

	⬡	L		
079 0450	17	450	900	**576.43**
079 0600	17	600	1500	**677.06**
079 0750	22	750	2700	**924.10**
079 0900	22	900	3400	**1500.53**

080

Levier

• *material: MZW*



METALMINOTTI

	⬡	L		
080 0450	17	450	800	**375.12**
080 0600	17	600	1400	**494.08**
080 0750	22	750	2500	**695.36**
080 0900	22	900	3600	**1006.44**

039

Levier

• *material: MZW*



METALMINOTTI

	mm	L		
039 0650	650	650	2000	**1015.60**
039 0800	800	800	2900	**1390.73**
039 1000	1000	1000	4300	**1811.60**
039 1250	1250	1250	7000	**2360.58**
039 1500	1500	1500	9000	**2680.80**

094

Lopata pentru gunoi

• *material: MZW*



	mm	L		
094 0540	120 x 200	540	400	**407.16**

075

Cutit

• *material: MZW*



	mm	L		
075 1800	180	180	90	**182.99**

034

Tarnacop

• *material: MZW*



	mm	L		
034 5600	560	560	2300	**1582.87**

341

Tarnacop

• *material: MZW*



	mm	L		
341 5800	580	580	2400	**1280.93**

020

Topor cu maner lung

• *material: MZW*



	mm	L		
020 9000	900	900	3000	**1308.38**

033

Topor cu maner scurt

• *material: MZW*



	G	L		
033 1000	1000	450	1000	**576.43**
033 1500	1500	450	1500	**731.96**

091

Lopata dreapta

• *material: MZW*



	mm	L		
091 1300	220 x 310	1300	2000	**814.30**

093

Lopata semirotunda

• *material: MZW*



	mm	L		
093 1300	250 x 280	1300	2000	**814.30**

095

Barda

• *material: MZW*



	mm	L		
095 3000	300	300	750	**352.25**

054

Perie de sarma cu maner

• *material: MZW*

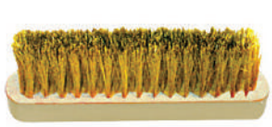


	mm	L		
054 3500	350	350	200	**310.59**

541

Perie de sarma

• *material: MZW*



	l	L		
541 1800	67	180	300	**374.53**

096

Perie de sarma rotativa

• *material: MZW*



	D Ø	d Ø		
096 0150	150	22,2	650	**1051.29**

030

Cadru de bomfaier

• *material: MZW*



	l	L		
030 0550	300	550	900	**1024.75**

098

Panza de bomfaier

• *material: MZW*

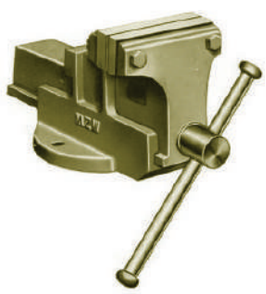


	l	L		
098 0300	300	300	30	**176.58**

027

Menghina de banc

• *material: MZW*



	Latime bacuri	Capacitate maxima		
027 0090	90	100	6500	**14798.62**

028

Nicovala

• *material: MZW*



	kg		
028 1400	14	14000	**4391.76**
028 2500	25	25000	**7045.12**

035

Menghina de tamplarie

• *material: MZW*



	Capacitate maxima	L		
035 0180	80	180	3160	**2104.40**
035 0250	120	250	4230	**2333.12**
035 0430	270	430	13500	**6038.68**

099

Dispozitiv ridicat butoaie

• *material: MZW*



	Capacitate (kg)		
099 0600	600	3600	**1488.62**

029

Palan cu lant

• *material: MZW*
• *lant de operare: 5x28 mm*
• *lant de ridicare: 8x38 mm*



	Capaciate de incarcare		
029 0500	500 kg	22000	**41107.28**

291

Lant

• *material: MZW*

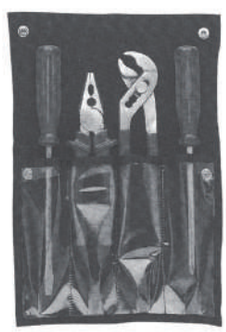


	Dimensiune za	
291 0528	5 x 28	**329.38**
291 0838	8 x 38	**1143.69**
291 1254	12 x 54	**1326.69**

200

Set surubelnite si clesti / 4 piese

• *material: MZW*



		L		
200 1000	4	250 x 250	1000	**2929.02**
		021 (280 mm); **059** (250 mm) **013** (240 mm); **006** (200 mm)		

600

Trusa scule 21 piese

• *material: MZW*





METALMINOTTI

		L x H x P		
600 1000	21	640 x 145 x 540	20000	**7136.62**

4 x **019** (500 g); **040**(225 mm); 2 x **055** (80 mm)
2 x **053** (100 mm); **044** (30 mm); 2 x **054** (350 mm)
541 (180 mm); 053 (150 mm); 076 (100 mm);
044 (40 mm); **044** (60 mm); 2 x **072** (350 mm)

700

Trusa scule 19 piese

• *material: MZW*





METALMINOTTI

		L x H x P		
700 2000	19	640 x 145 x 540	24000	**10201.70**

2 x **054** (350 mm); **037** (145 mm); **024** (200 mm); **053** (100 mm); **021** (150 mm); **021** (220 mm)
012 (250 mm); **017** (500 mm); **018** (2000 g); 2 x **040** (225 mm); **012** (200 mm); **012** (380 mm)
065 (380 mm); **055** (80 mm); **061** (350 mm)
076 (100 mm); **080** (450 mm)

800

Trusa scule 32 piese

• *material: MZW*





METALMINOTTI

		L x H x P		
800 3000	32	640 x 145 x 540	28000	**16999.79**

017 (500 g); **015** (1000 g, 2000 g); **053** (100 mm); **003** (21x23, 27x29); **001** (36x41, 24x27, 32x36, 41x46); **002** (27, 32, 36, 41, 46, 50); **047** (55 mm); **024** (200 mm); **025** (200 mm); 2 x **044** (30 mm); **040** (225 mm); **012** (250 mm, 300 mm); **061** (350 mm); **012** (200 mm); **006** (200 mm); **021** (150 mm, 220 mm); **054** (350 mm); **541** (180 mm); **080** (450 mm)

400

Trusa scule 13 piese

• *material: MZW*



METALMINOTTI

		L x H x P		
400 2000	13	390 x 130 x 210	4000	**5279.27**

054 (350 mm); **541** (180 mm); **006** (200 mm); **013** (240 mm); **075** (180 mm); **040** (225 mm); **019** (500 g); **021** (180 mm, **220** mm); **071** (80 mm); **044** (60 mm, 40 mm)

500

Trusa scule 26 piese

• *material: MZW*



METALMINOTTI

		L x H x P		
500 3000	26	420 x 230 x 230	11500	**9927.23**

065 (380 mm); **061** (350 mm); 2 x **054** (350 mm); **012** (250 mm, 200 mm); **013** (240 mm); **006** (200 mm); **024** (250 mm, 175 mm); **041** (40 mm); **015** (800 g); **017** (500 g); **055** (80 mm); **044** (60 mm, 40 mm); **001** (30x32; 24x27, 20x22, 18x19, 16x17, 14x15, 12x13, 10x11, 08x09, 06x07)

Safewrench®

Cheie fixa simpla de soc Safewrench®

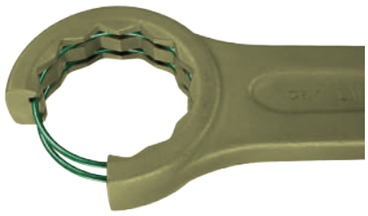
- *material: Cu-Be*
- *cheia de bataie in siguranta*
- *utilizarea unei chei normale este un dezavantaj urias pentru multe motive insa cea mai importanta este siguranta!*
- *accidentari pot aparea cu usurinta atunci cand tineti o cheie cu o singura mana si incercand sa slabiti sau sa strangeti un surub sau o piulita cu un ciocan in cealalta*
- *Safewrench pune capat oricărui risc legat de siguranta! Asigurandu-se la piulita sau surub, mainile sunt libere sa opereze cu un ciocan*

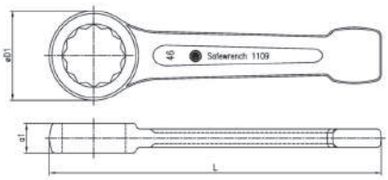
mai multa forta, precizie si concentrare. Prin integrarea a doua saibe elastice, Safewrench este o adevarata inovatie pe un instrument clasic de mana niciodata vazut pana acum!

- *acum e disponibila si in varianta anti-ex potrivita pentru zonele ATEX . Poate fi folosita de catre o singura persoana in deplina siguranta.*
- *saibele elastice interioare păstreaza Safewrench securizata pe surub sau piulita. Chiar si atunci cand lucrati deasupra capului! Se autoasigura si nu cade.*

Nota: *saibele elastice de siguranta sunt fabricate din cupru-Beriliu.*







AMPCO SAFETY TOOLS®

Safewrench®

	mm	L	d1	a1		
SW0024A	24	160	41.5	15	330	**1639,61**
SW0027A	27	180	45.3	16	380	**1639,61**
SW0030A	30	190	50.9	17	480	**1930,85**
SW0032A	32	190	50.9	17	480	**1930,85**
SW0036A	36	205	50.7	19	660	**2075,70**
SW0041A	41	225	62.9	20	930	**2732,16**
SW0046A	46	240	71.3	22	1150	**3102,00**
SW0050A	50	255	77.1	23	1330	**3627,48**
SW0055A	55	272	87.4	25	1650	**4105,18**
SW0060A	60	272	87.4	25	1820	**4760,10**
SW0065A	65	300	97.8	28	2410	**5632,30**
SW0070A	70	330	107.9	32	2700	**8663,41**
SW0075A	75	330	107.9	32	2940	**9520,20**

	mm		
SW1031B	1.1/4"	480	**2229,80**
SW1036B	1.7/16"	660	**2394,69**
SW1041B	1.5/8"	930	**3145,15**
SW1046B	1.13/16"	1150	**3572,00**
SW1050B	2"	1330	**4593,67**
SW1055B	2.3/16"	1650	**5205,44**
SW1060B	2.3/8"	1820	**6029,87**
SW1065B	2.9/16"	2410	**7137,84**
SW1070B	2.3/4"	2700	**10993,38**

Dimensiunile in inch se aduc numai pe comenzi speciale



Asiguram gama completa de scule utilizate in zonele reglementate ATEX

In calitate de lider pe piața de distribuție a sculelor de mână din România ne-am propus sa actionam pentru echilibrarea în vânzări a nivelului de stoc pe brand-urile din portofoliu, acordând o atenție specială programelor de scule cu destinații pe domenii specializate. Programele Minotti, AMPCO si Carltsoe, destinate pentru utilizarea în domenii strict reglementate - Atmosfere Explozibile - 94/9/EC - pe care le reprezentam in Romania pe bază de exclusivitate. Denumite în mod curent scule antiexplozie, acestea sunt fabricate din aliaje Aluminiu-Bronz (AlCu) si Beriliu-Cupru (BeCu).
Grație acestor fabricanți - Metallurgica Minotti, nivel European, AC SAFETY TOOLS, nivel mondial - oferta noastra de scule antiexplozie are caracter exhaustiv pe piața României, cuprinzând practic ce mai variată gamă de produse și tipodimensiuni.
Utilizările cele mai importante ale sculelor antiexplozie sunt în industria petrolului și gazelor, rafinării petrochimice, rezervoare de petrol, rețele de gaz, mine, depozite de carburanți, fabrici de muniție, marină, industria chimica, industria vopselei și emailului, industria alcoolului, farmaceutica, în general, aceste scule conform reglementarilor in vigoare fiind obligatoriu a se utiliza în toate locurile implicate de prezența elementelor periculoase, ca: materiale inflamabile, gaze, explozivi, apă de mare, etc. Viața muncitorilor și a tehnicienilor este pusă în pericol de scânteile provocate de sculele din oțel, a căror utilizare este periculoasă în aceste medii.
Categoriile de zone cu pericol de explozie clasificate conform ATEX Directive 94/9/EC, în funcţie de frecvenţa şi durata unui mediu exploziv, vizate pentru utilizarea sculelor sunt: zona 0; zona 1; zona 2; zona 20; zona 21; zona 22. Dintre aceste zone, doar Zona 0 nu este acoperită de aliajele Bronz- Aluminiu, dar este cunoscut faptul că acest mediu exploziv se întâlneşte foarte rar. Din experienţa noastră în relaţia cu producătorul european Metallurgica Minotti recomandăm recurgerea la Beriliu ca si element de aliere în componenţa sculelor antiexplozie, doar în cazul în care activitatea acoperă şi zona 0 de pericol. În mod obişnuit aliajelor CuBe li se atribuie, mai mult sau mai puţin întemeiat, o durabilitate mai mare atribuita decît a celor din CuAl, dar această caracteristică este pusă serios în balanţă de subdimensionarea la limită a sculelor antiexplozie, din motive legate de costul ridicat al Beriliului.
Înființată în 1924, Metallurgica Minotti ofera aliajul Aluminiu-Bronz, denumit MZW (patent propriu brevetat in anul 1955), special conceput pentru a îmbunătăți performanțele sculelor antiexplozie. Cea mai mare parte a acestora sunt fabricate din aliaj Aluminiu-Bronz, (chei, clesti, ciocane, menghine, etc), doar sculele de tăiere (dălți, cuțite, dornuri, ș.a), sunt fabricate din aliaje Beriliu-Cupru, din rațiuni de protecție a sănătății.
Certificările de calitate date de RINA SpA (autoritatea cheie a organizațiilor internaționale cu birouri în peste 60 de țări din întreaga lume), Marina Militară Italiană, Consiliul Italian de Prevenire a Accidentelor, la care se adaugă verificările laboratorului in-house acreditat pentru teste de calitate, precum și respectarea cu strictețe a Directivelor Europene ATEX cât și a Ghidului de Bune Practici pe tot parcursul procesului de fabricație, fac din brand-ul Minotti o marcă sigură, garantată 100% în exploatare.
Datorită materialelor din care sunt fabricate cele doua aliaje, sculele antiexplozie nu pot ajunge la performanțele mecanice al celor tradiționale, din oțel, motiv pentru care utilizarea lor trebuie să se facă fără suprasolicitare, în regim de lucru controlat. Sculele antiexplozie Minotti sunt proiectate însă să respecte maximul prevazut in normele DIN pentru sculele din oțel în ceea ce privesc cotele dimensionale de gabarit, ceea ce le conferă un plus de robustețe și rezistență, comparativ cu sculele similare din aliaje BzAl de proveniență asiatică, care, în genere, chiar daca ajung să se raporteze la norma DIN, sunt subdimensionate (prin raportare la minimul prevazut pentru aceste cote, ori chiar sub acesta). Noi credem că această subdimensionare nu poate fi „compensată" în practică/în utilizare prin fabricarea sculelor din aliaje CuBe, elementul de aliere Beriliu ducând la creşterea durităţii sculei în detrimentul proprietăţilor mecanice prevăzute de standarde.
Această grijă brand-ului Minotti de a asigura caracteristici tehnice superioare sculelor antiexplozie, capătă valențe superioare în cazul în care există două norme valide pentru același tip de produs. Astfel, cheile duble fixe din oțel se fabrică în două variante, după cum se raportează la norma specifică DIN: 895 ori 3110. Pentru că norma DIN 895 prevede dimensiuni constructive de gabarit mai mici decât norma DIN 3110, în considerarea materialului de fabricație, aliaj neferos, producătorul Minotti fabrică sculele respectiv prin raportare la DIN 3110, asigurând proprietăți mecanice superioare sculelor. De asemenea, procedeul tehnologic folosit la fabricația sculelor antiexplozie Minotti - prin forjare din material extrudat - comparativ cu fabricația prin turnare ori alte tehnici, folosite îndeobște la sculele de proveniență asiatică, permite brandului Minotti caracteristici mecanice superioare prin orientarea fibrei, asigurându-se beneficii la solicitările de moment, impact, îndoire.
Aliajul propriu MZW conține max 4% fier în componență pentru a conferi caracteristici de rezistență la tensionare. Un alt avantaj oferit de aliajul MZW este dat de măiestria elaborării: fierul este atât de fin atomizat încât greutatea aliajului este mică iar permeabilitatea magnetică este foarte joasă. Proprietățile antimagnetice ale sculelor Minotti sunt renumite între utilizatorii acestora: geniști, spitale (tomografie axială), centre de transmisii radar, mașini de testare nucleară.
Printre alte avantaje oferite de MZW se numără și proprietățile antirupere superioare. Unii utilizatori caută în special pentru unelte de tăiat sau de lovit durități extreme considerând greșit că această caracteristică ar asigura o mai lungă durată de funcționare. Duritatea mai mică a aliajului MZW comparativ cu aliajele BeCu, nu permite crearea de condiții de rupere de așchii din sculă (un pericol pentru siguranța operatorului), o duritate mai mare venind în contradicție cu ductilitatea aliajului. De asemenea, aliajul MZW este renumit pentru rezistența sa la coroziune, respectiv, la apa sărată de mare, ceea ce face sculele utilizabile și pe vapoare sau porturi.
Aliajele de BeCu sunt utilizate în fabricația sculelor antiexplozie cu multă precauție de producătorul european Minotti, in considerarea faptului că Beriliul este un metal toxic, în mod special sub formă de pulberi in procesul de fabricatie, dar chiar si ca element de aliere in scula, prin contact indelungat cu mana utilizatorului. Sculele antiexplozie Minotti sunt în cea mai mare parte fabricate din aliaj Bronz - Aluminiu (chei, clesti, ciocane, menghine, etc), doar sculele de tăiere (dălți, cuțite, dornuri, ș.a), sunt fabricate din aliaje Cupru-Beriliu, din rațiuni de protecție a sănătății. Acest element de aliere conferă sculelor proprietăți ca: duritate, elasticitate, durabilitate mărite, dar și cost mai mare datorita materialelor rare folosite în aliaj. Aliajele pe bază de Bronz- Aluminiu, au avantajul că elimină aceste pericole de intoxicare profesională pe care le prezintă aliajul Cupru-Beriliu, păstrându-şi proprietăţile mecanice şi Antiex. Deşi Beriliul, uşor de găsit de altfel, este un element de aliere ce scumpeşte produsul, totuşi costurile de fabricaţie scad per produs din cauza faptului că acest aliaj este mai uşor de prelucrat decât aliajele Bronz-Aluminiu.

În contextul preocupărilor îmbunătăţirii directivelor ATEX, pe plan european, în scopul prevenirii accidentelor de muncă şi a îmbolnăvirilor prefesionale, în ultima perioadă de timp au apărut tot mai multe avertizări referitoare la pericolele pentru sănătate pe care le reprezintă pentru utilizatorii de scule, Beriliul, ca şi element constitutiv al aliajului Cupru-Beriliu. În acest sens, recomandăm accesarea Fişei cu Date de Securitate emisă de Materion Brush Inc., USA, la data de 28 Iulie 2015, care a testat amestecul Cupru-Beriliu din punct de vedere al caracteristicilor fizice, pericolelor pentru sănătate şi mediul înconjurător. Potrivit cercetărilor recent efectuate de compania americană, aliajul de bază Cupru-Beriliu trebuie etichetat în conformitate cu Regulamentul CE nr.1272/2008 amendat:

Contine: Beriliu, Cupru
Pictograme de pericol:



datorită pericolelor pentru sănătate evaluate, cauzate de toxicitatea amestecului, care prezintă un risc semnificativ de cancer. Efectele nocive ale utilizării aliajului Cupru-Beriliu asupra sănătății, determină luarea măsurilor speciale de precauție, fiind interzise utilizările profesionale în domeniul public (administrație, învățământ, divertisment, servicii, meșteșuguri), dar și în domeniul privat (public larg, orice consumator).
AC SAFETY TOOLS, deținător al celor două programe de scule antiexplozie AMPCO si Carltsoe acoperă întreaga gamă, deopotrivă scule fabricate din aliaje Aluminiu-Bronz si Beriliu-Cupru.
Programul AMPCO Safety avand sloganul/deviza “Together we make your work safer”, își are obârșia în AMPCO METAL GRUP/ American Metal Product Company, având locațiile principale în SUA, Franta, Olanda, Elveția. Este liderul mondial în scule antiexplozie din anul 1922, oferind cea mai largă gamă de produse. Aliajele Aluminiu-Bronz si Beriliu-Cupru sunt furnizate de societatea AMPCO Metal din cadrul grupului, fiind certificate de Federal Institute for Materials Research and Testing și garantate a fi folosite in mediile potential explozive ATEX. Fabricația AMPCO se distinge prin 100% trasabilitate: monitorizarea pe întregul flux de fabricație; marcarea șarjelor de aliaj; păstrarea eșantioanelor de aliaje și a probelor martor pe o perioadă minimă de 2 ani; rapoartele de testare privind compoziția chimică a elementelor de aliere și proprietățile mecanice specifice sculelor antiexplozie (verificări ale durității, permeabilității magnetice, elongației, individual-dimensionale) însoțesc în mod obligatoriu fiecare livare.
Principalele proprietăti ale sculelor antiexplozie: antiscantei, antimagnetice si rezistente la coroziune, se regăsesc din plin la sculele AMPCO.
Respectarea cu strictețe a normelor DIN/ISO de referință pentru principalele scule de mână din oțel (pentru chei: DIN 3113, DIN 895, DIN 894, DIN 897, DIN 837, DIN 3111, DIN 7444, DIN 133, DIN 911, DIN 3112, DIN 22417, DIN 1810, DIN 14822, DIN 87311; pentru clești: DIN 5244/ISO 5746, ISO 5745, ISO 9343, DIN 5248/ISO 5745, DIN 5231/ISO 8976, DIN 5249/ISO 5745, DIN 5254, DIN 5256, DIN 5234/ISO 6748, DIN 5238/ISO 5749, DIN 5241/ISO 9243, DIN 5238/ISO 5749, DIN 5241/ISO 9243, DIN 5247, DIN 5234, ciocane: DIN 1041, DIN 1042, DIN 6475, DIN 5108), face ca sculele antiexplozie AMPCO să fie solicitate de jucatori importanți din economie care activează în zone cu potențial risc de explozie.
AC SAFETY TOOLS fabrică sculele antiexplozie atât din aliaje Bronz-Aluminiu cât şi Cupru-Beriliu. Realitatea din ultimii ani în Europa şi în Statele Unite relevă evitarea pe cât posibil a utilizării Beriliului în aliajele din care se fabrică în mod curent sculele antiexplozie, motiv pentru această companie atenţionează pe site-ul propriu cu privire la politica de dezvoltare a unor aliaje alternative celor cu Beriliu, dar - foarte important - „whitout any compromise on the performance of the product.” Strategia celui mai mare producător de scule antiexplozie din lume se bazează pe dovezile indubitabile aduse referitoare la bolile grave pe care le provoacă Beriliul într-un timp lung de expunere: “This problem has been known for many yearsand all responsible manufacturers of Beryllium containing products procedures to minimise the risk to their employees or the users of their products.“ Din această cauză, marea majoritate a sculelor antiscânteie sunt BERYLLIUM-FREE, acesta dând următoarea asigurare clienţilor săi pe site-ul companiei: “AMPCO METAL Bronye Tools will perform equally with the Copper Beryllium alloys, without the risk”.
Programul Carltsoe Safety Tools, se bucura de o experienta de peste 50 de ani in fabricatia sculelor antiexplozie. Oferta cvasicompleta de scule antiexplozie LIFE TIME WARRANTY acopera peste 3000 de produse fabricate din ambele aliaje: Aluminiu-Bronz si Beriliu-Cupru, pentru toate zonele ATEX: 0, 1 si 2, 20, 21 si 22, precum si M1 si M2, in minerit. Toate aliajele sunt certificate de Federal Institute for Material Research and Testing, Berlin, Germania. Siguranta oferita in toate zonele cu pericol real de explozie este ilustrata de deviza: „If you just had the right tools”.





SETURI DE SCULE

Pentru amatori si profesionisti

Seturile continand modele variate de chei, clesti, surubelnite, pile, ciocane, punctatoare, dalti si alte scule sunt o alegere excelenta pentru utilizatorii avansati si alegerea corecta pentru cei incepatori.

Compozitie inteligenta

Compozitia diferitelor ansamble este decisa pe baza unei colaborari permanente cu utilizatorii profesionali ai sculelor Unior in teren. Ansamblurile gata de folosire tin cont de nevoile fiecarui domeniu de activitate, reprezentand in acest fel o sectiune de scule de inalta calitate plecand de la alegeri gandite si preturi atractive.

Seturi de scule in SOS pentru Europlus, Eurovision, Eurostyle 760

Seturi de scule 765

Seturi de scule in trusa 776





Module din spuma SOS - Avantaje

Modulele SOS sunt facute din spuma de polietilena dublu strat care este rezistenat la grasimi, benzina, ulei, solventi nitro, adezivi si ulei de motor - toate putand fi curatate fara a lasa urme vizibile (pete). Pentru a evita petele permanente, murdaririle cu adezivi sau uleiul de motor, acestea trebuiesc curatate imediat cu benzina.

Sistem

Material: spuma de polietilena de joasa densitate





Aceste module din spuma de polietilena permit o mai buna organizare si vizibilitate a aranjarii sculelor in cutii de scule, in sertarele carcioarelor si in dulapurile cu scule. Este vorba de sistemul SOS. Modulele sunt utilizabile intr-o larga gama de temperaturi, nu se umezesc si, in condiii normale de utilizare, au o lunga durata de viata. Permit protejarea sculelor mentinandu-le la locul destinat, impiedicandu-le sa se miste de maniera necontrolata in interiorul spatiului de aranjare. Dat fiind ca locul fiecarei scule in modul este definit precis, se vad imediat care sunt sculele care lipsesc.

Sistem SOS

S - Safety (Siguranta)
O - Order (Aranjare)
S - Survey (Verificare)



Selectie simpla

Seturile adaptate domeniilor specifice de lucru simplifica alegerea si cumpararea instrumentelor specifice de care aveti nevoie si pe care le folositi in munca. Electricieni, mecanici auto, vopsitori de vehicule, tehnicieni de calculatoare si multi alti profesionisti au incredere in experienta Unior.



1011CEV4 (624137)
Set de scule de 127 piese in module SOS in carucior de scule 940EV4

capacitatea statica a carucierului: 1600 kg



capacitate sertare 40 kg

Conceput pentru intretinerea de baza in service-uri auto, agricole si in industrie

940EV4 Crucior de scule

- deschiderea si inchiderea sertarelor este foarte simpla datorita solutiei noi - manerul sertarului in pozitia de sus asigura o deblocare usoara si deschiderea sertarului.
- Mecanismul de inchidere al sertarelor asigura deschiderea nedorita a acestora
- posibilitate de adaugare accesorii
- 7 sertare(5 de dim. 563x365x70mm,2 sertare de dim. 563x410x150mm)

7526,06


sertare pe rulmenti


sistem de inchidere


noile roti diam. 125 mm pentru imbunatatirea mobilitatii si stabilitatii

964/49SOS
(623990)



660/6 (150, 200), **642/6** (5), **641/6** (3, 4, 5, 6), **300/5C** (320), **701** (0.05 - 1 x 20), **753P** (150), **556A** (160), **710P** (3), **2087** (1), 2035 (), **760H1/2S (200),** **764H1/2S** (200), **763H1/2S** (200), **761H1/2S** (200), **VL964/49SOS** (564 x 364 x 30)

964/46SOS
(623987)



120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24), **220/3** (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10) **605TBI** (0.4 x 2.5 x 75, 0.5 x 3.0 x 80, 0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), **615TBI** (PH 1 x 80, **PH 2 x 100),** 627TBI (1.0 x 5.5 x 25), **626TBI** (PH 2 x 25), **VL964/46SOS** (564 x 364 x 30)

964/47SOS
(623988)



188/2 6p (5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), **187/2HX** (3, 4, 5, 6, 7), **187/2PH** (PH 1, PH 2), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **188.1/1ABI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 150, 1/4" x 55), **188.6/2** (1/4"), **188.8** (1/4"), **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 30, 32), **190.1/1ABI** (1/2"), **190.3/1** (1/2"), **190.4/1S** (1/2" x 125, 1/2" x 250), **190.6/2** (1/2"), **vl964/47SOS** (564 x 364 x 30)

964/48SOS
(623989)



447/1HPP (240), **466/1BI** (180), **508/1BI** (170), **405/1BI** (180), **532PLUS/1DP** (180 x 19 - 60), **534PLUS/4DP** (180 x 19 - 60), **536PLUS/1DP** (180 x 19 - 60), **538PLUS/4DP** (180 x 19 - 60), **430/3** (250), **582/3P** (150), **812** (400), **820A** (32), **819A** (45), **VL964/48SOS** (564 x 364 x 30)

1011BEV4 (621757)
Set de scule de 193 piese in module SOS in carucior de scule 940EV4

capacitatea statica a carucierului: 1600 kg



capacitate sertare 40 kg

Conceput pentru intretinerea de baza in service-uri auto, agricole si in industrie

940EV4 Crucior de scule

- deschiderea si inchiderea sertarelor este foarte simpla datorita solutiei noi - manerul sertarului in pozitia de sus asigura o deblocare usoara si deschiderea sertarului.
- Mecanismul de inchidere al sertarelor asigura deschiderea nedorita a acestora
- posibilitate de adaugare accesorii
- 7 sertare(5 de dim. 563x365x70mm,2 sertare de dim. 563x410x150mm)

9219,35



sertare pe rulmenti



sistem de inchidere



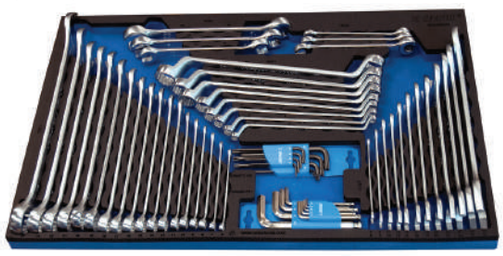
noile roti diam. 125 mm pentru imbunatatirea mobilitatii si stabilitatii

964/37SOS
(621396)



605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.6 x 8.0 x 175), **615TBI** (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), **626TBI** (PH 1 x 25, PH 2 x 25), **627TBI** (1.0 x 5.5 x 25, 1.2 x 6.5 x 25), **621TBI** (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **193HXS** (3, 4, 5, 6, 8, 10), **vl964/37SOS** (564 x 364 x 30)

964/35SOS
(621394)



110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), **120/1** (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27), **180/1** (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **183/2** (8 x 10, 10 x 11, 11 x 13, 12 x 14, 17 x 19, 19 x 22), **220/3S** (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10) **220/7TX** (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40), **vl964/35SOS** (564 x 364 x 30)

964/32ASOS
(623936)



406/1BI (180), **430/3** (250), **447/1HPP** (240), **466/1BI** (180), **514/1BI** (160), **512/1BI** (200), **532PLUS/1DP** (180 x 19 - 60), **534PLUS/1DP** (180 x 19 - 60), **536PLUS/1DP** (180 x 19 - 60), **538PLUS/1DP** (180 x 19 - 60), **642/6** (5), **660/6** (200), **812** (400), **820A** (40), **vl964/32ASOS** (564 x 364 x 30)

964/36SOS
(621395)



188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13), **189/2** (E 4, E 5, E 6, E 7, E 8, E 10, E 11), **187/2HX** (3, 4, 5, 6, 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2PH** (PH 1, PH 2, PH 3) **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **188.7/2** (1/4" - 3/8"), **188.8** (1/4"), **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32) **191/1** (E 10, E 11, E 12, E 14), **192/2HX** (6, 7, 8, 9, 10, 12), **192/2TX** (TX 30, TX 40, TX 45, TX 50), **192/2ZXL** (M 6, M 8, M 10, M 12), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2" x 380), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2"), **vl964/36SOS** (564 x 364 x 30)

1011DEV6 (624138)
Set de scule de 238 piese in module SOS in carucior de scule 940EV6

capacitatea statica a caruciorului: 1600 kg



capacitate sertare 40 kg

Conceput pentru intretinerea de baza in service-uri auto, agricole si in industrie

940EV6 Crucior de scule

- deschiderea si inchiderea sertarelor este foarte simpla datorita solutiei noi - manerul sertarului in pozitia de sus asigura o deblocare usoara si deschiderea sertarului.
- Mecanismul de inchidere al sertarelor asigura deschiderea nedorita a acestora
- posibilitate de adaugare accesorii
- 8 sertare(7 de dim. 563x365x70mm,1 sertare de dim. 563x410x150mm)

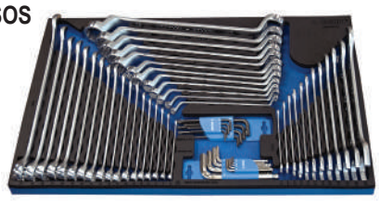
11805,02


sertare pe rulmenti


sistem de inchidere


noile roti diam. 125 mm pentru imbunatatirea mobilitatii si stabilitatii

964/28SOS
(621387)



110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), **120/1** (6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27), **180/1** (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), **220/3S** (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), **220/7TX** (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40), **vl964/28SOS** (564 x 364 x 30)

964/29ASOS
(623932)



215/2 (6 x 7, 8 x 10, 13 x 17, 19 x 22, 24 x 27, 30 x 32), **215.1/2** (6 - 17, 18 - 41), **182/2BTX** (6 x 8, 10 x 12, 14 x 18, 20 x 24), **183/2** (8 x 10, 10 x 11, 11 x 13, 12 x 14, 16 x 18, 17 x 19, 19 x 22, 22 x 24, 24 x 27, 30 x 32), **202/1** (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19), **VL964/29ASOS** (564 x 364 x 30)

964/30SOS
(621389)



188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13), **189/2** (E 4, E 5, E 6, E 7, E 8, E 10, E 11), **187/2HX** (3, 4, 5, 6, 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2PH** (PH 1, PH 2, PH 3), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **188.7/2** (1/4" - 3/8"), **188.8** (1/4"), **238/1 6p** (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **238.1/1FBI** (3/8"), **238.2/1BI** (3/8"), **238.3/1** (3/8"), **238.4/2** (3/8" x 45, 3/8" x 75), **238.4/1** (3/8" x 125, 3/8" x 250), **238.6/1** (3/8"), **238.7/2** (3/8" - 1/2"), **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2" x 380), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), 190.6/2 (1/2"), **vl964/30SOS** (564 x 364 x 30)

964/33SOS
(621392)



605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.6 x 8.0 x 175), **615TBI** (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), **626TBI** (PH 1 x 25, PH 2 x 25), **627TBI** (1.0 x 5.5 x 25, 1.2 x 6.5 x 25), **621TBI** (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **629TBI** (6, 7, 8, 9, 10, 11, 12, 13), **vl964/33SOS** (564 x 364 x 30)

964/48SOS
(623989)



447/1HPP (240), **466/1BI** (180), **508/1BI** (170), **405/1BI** (180), **532PLUS/1DP** (180 x 19 - 60), **534PLUS/4DP** (180 x 19 - 60), **536PLUS/1DP** (180 x 19 - 60), **538PLUS/4DP** (180 x 19 - 60), 430/3 (250), **582/3P** (150), **812** (400), **820A** (32), **819A** (45), **VL964/48SOS** (564 x 364 x 30)

964/49SOS
(623990)



660/6 (150, 200), **642/6** (5), **641/6** (3, 4, 5, 6), **300/5C** (320), **701** (0.05 - 1 x 20), **753P** (150), **556A** (160), **710P** (3), 2087 (1), **2035** (), **760H1/2S (200),** **764H1/2S** (200), **763H1/2S** (200), **761H1/2S** (200), **VL964/49SOS** (564 x 364 x 30)

1011AEV6 (621756)
Set de scule de 325 piese in module SOS in carucior de scule 940EV6

capacitatea statica a carucierului: 1600 kg



capacitate sertare 40 kg

Conceput pentru intretinerea de baza in service-uri auto, agricole si in industrie

940EV6 Crucior de scule

- deschiderea si inchiderea sertarelor este foarte simpla datorita solutiei noi - manerul sertarului in pozitia de sus asigura o deblocare usoara si deschiderea sertarului.
- Mecanismul de inchidere al sertarelor asigura deschiderea nedorita a acestora
- posibilitate de adaugare accesorii
- 8 sertare(7 de dim. 563x365x70mm,1 sertare de dim. 563x410x150mm)

15188,82


sertare pe rulmenti


sistem de inchidere

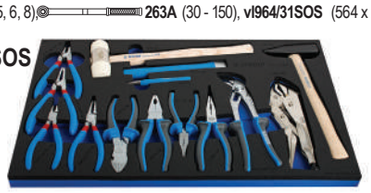

noile roti diam. 125 mm pentru imbunatatirea mobilitatii si stabilitatii

964/31SOS
(621390)



192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), **192/2TXL** (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), 191/1 (E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24), **192/2ZX** (M 5, M 6, M 8, M 10, M 12, M 14), **192/2ZXL** (M 6, M 8, M 10, M 12, M 14), **192/2HX** (5, 6, 7, 8, 9, 10, 12, 14), **192/2HXL** (5 x 100, 6 x 100, 7 x 100, 8 x 100, 10 x 100, 12 x 100), **190/1 12p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32), **186.4/2** (21, 19, 16), (2, 3, 4, 5, 6, 8), **263A** (30 - 150), **vl964/31SOS** (564 x 364 x 30)

964/32ASOS
(623936)



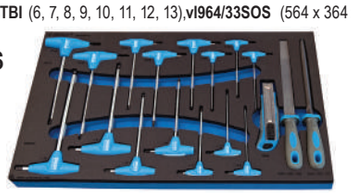
406/1BI (180), **430/3** (250), **447/1HPP** (240), **466/1BI** (180), **514/1BI** (160), **512/1BI** (200), **532PLUS/1DP** (180 x 19 - 60), **534PLUS/1DP** (180 x 19 - 60), **536PLUS/1DP** (180 x 19 - 60), **538PLUS/1DP** (180 x 19 - 60), **642/6** (5), **660/6** (200), **812** (400), **820A** (40), **vl964/32ASOS** (564 x 364 x 30)

964/33SOS
(621392)



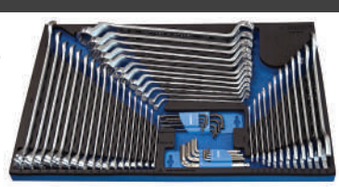
605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.6 x 8.0 x 175), **615TBI** (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), **626TBI** (PH 1 x 25, PH 2 x 25), **627TBI** (1.0 x 5.5 x 25, 1.2 x 6.5 x 25), **621TBI** (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **629TBI** (6, 7, 8, 9, 10, 11, 12, 13), **vl964/33SOS** (564 x 364 x 30)

964/34SOS
(621393)



193HXS (2.5, 3, 4, 5, 6, 8, 10), **193TX** (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45), **760H1/2S** (200), **764H1/2S** (200), **556B** (160), **vl964/34SOS** (564 x 364 x 30)

964/28SOS
(621387)



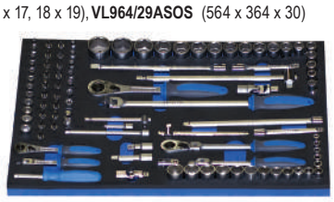
110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), **120/1** (6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27), **180/1** (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), **220/3S** (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), **220/7TX** (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40), **vl964/28SOS** (564 x 364 x 30)

964/29ASOS
(623932)



215/2 (6 x 7, 8 x 10, 13 x 17, 19 x 22, 24 x 27, 30 x 32), **215.1/2** (6 - 17, 18 - 41), **182/2BTX** (6 x 8, 10 x 12, 14 x 18, 20 x 24), **183/2** (8 x 10, 10 x 11, 11 x 13, 12 x 14, 16 x 18, 17 x 19, 19 x 22, 22 x 24, 24 x 27, 30 x 32), **202/1** (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19), **VL964/29ASOS** (564 x 364 x 30)

964/30SOS
(621389)



188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13), **189/2** (E 4, E 5, E 6, E 7, E 8, E 10, E 11), **187/2HX** (3, 4, 5, 6, 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2PH** (PH 1, PH 2, PH 3), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **188.7/2** (1/4" - 3/8"), **188.8** (1/4"), **238/1 6p** (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **238.1/1FBI** (3/8"), **238.2/1BI** (3/8"), **238.3/1** (3/8"), **238.4/2** (3/8" x 45, 3/8" x 75), **238.4/1** (3/8" x 125, 3/8" x 250), **238.6/1** (3/8"), **238.7/2** (3/8" - 1/2"), **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2" x 380), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2"), **vl964/30SOS** (564 x 364 x 30)

1012A (623942)
Set de scule de mana pentru servisarea masinilor agricole

capacitatea statica a carucioruului: 1600 kg



capacitate sertare 40 kg

Conceput pentru intretinerea de baza in service-uri auto, agricole si in industrie

940EV6 Crucior de scule

- deschiderea si inchiderea sertarelor este foarte simpla datorita solutiei noi - manerul sertarului in pozitia de sus asigura o deblocare usoara si deschiderea sertarului.
- Mecanismul de inchidere al sertarelor asigura deschiderea nedorita a acestora
- posibilitate de adaugare accesorii
- 8 sertare(7 de dim. 563x365x70mm,1 sertare de dim. 563x410x150mm)

13124,28


sertare pe rulmenti


sistem de inchidere

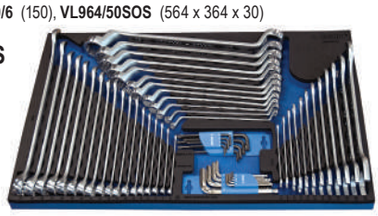

noile roti diam. 125 mm pentru imbunatatirea mobilitatii si stabilitatii

964/50SOS
(623991)



190.1/1ABI (1/2"), **190.2/1BI** (1/2" x 380), **190.3/1** (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.6/2** (1/2"), **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190/1L12p** (10, 13, 17, 19, 22, 24), **192/2HX** (5, 6, 7, 8, 9, 10, 12, 14, 17), **641/6** (2, 3, 4, 5, 6, 8), **642/6** (4), **660/6** (150), **670/6** (150), **VL964/50SOS** (564 x 364 x 30)

964/28SOS
(621387)



110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), **120/1** (6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27), **180/1** (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), **220/3S** (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), **220/7TX** (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40), **vl964/28SOS** (564 x 364 x 30)

964/52SOS
(623993)



812 (800, 1000), **300/5** (400, 500), 750 (407), **760H1/2S** (200), **763H1/2S** (200), **556A** (160), **VL964/52SOS ()**

964/54SOS
(623994)



215/2 (8 x 10, 13 x 17, 19 x 22, 24 x 27), **183/2** (8 x 10, 10 x 11, 11 x 13, 12 x 14, 16 x 18, 17 x 19, 22 x 24, 24 x 27, 30 x 32), **206/2** (220 x 60 x 140), 631B (6 - 24), **480/6** (1.1/2"), **710P** (5), **vl964/54SOS** (564 x 364 x 30)

964/33SOS
(621392)



605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.6 x 8.0 x 175), **615TBI** (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), **626TBI** (PH 1 x 25, PH 2 x 25), **627TBI** (1.0 x 5.5 x 25, 1.2 x 6.5 x 25), **621TBI** (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **629TBI** (6, 7, 8, 9, 10, 11, 12, 13), **vl964/33SOS** (564 x 364 x 30)

964/51SOS
(623992)



406/1BI (180), **430/3** (250), **445/1BI** (240), **466/1BI** (180), **508/1BI** (200), **512/1BI** (200), **532PLUS/1DP** (180 x 19 - 60), **534PLUS/1DP** (180 x 19 - 60), **536PLUS/1DP** (180 x 19 - 60), **538PLUS/1DP** (180 x 19 - 60), **812** (400), **642/6** (5), **660/6** (200), **820** (40), **VL964/51SOS** (564 x 364 x 30)

964/53SOS
(623995)



197.1/1 (3/4" x 500), **197.3/1** (3/4"), 197.4/1 (3/4" x 200, 3/4" x 400), **197/1 6p** (22, 24, 27, 30, 32, 36, 38, 41, 46, 50), **197/2AHX** (14, 17, 19, 22), **197.7/1** (3/4" - 1/2"), **190.7/2** (1/2" x 3/4"), **2035 (), 2087 (1), VL964/53SOS** (564 x 364 x 30)

964/1SOS

Set de chei fixe in modul SOS



UNIOR

621049	6 - 32 / 12	2300	1F	1		**344,31**

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), **vl964/1SOS** (188 x 364 x 30)

vl964/1SOS

Modul SOS pentru chei fixe

UNIOR

	B	L	H				
620881	188	364	30	63	1V	1	**31,13**

964/1ASOS

Set de chei fixe in modul SOS



UNIOR

621050	6 - 32 / 12	2290	1F	1		**353,45**

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), **vl964/1ASOS** (188 x 364 x 30)

vl964/1ASOS

ModulSOS pentru 964/1ASOS

UNIOR

	B	L	H				
620882	188	364	30	64	1V	1	**31,13**

vl964/2BSOS

Modul SOS pentru chei combinate IBEX

UNIOR

	B	L	H				
620885	188	364	30	49	1V	1	**31,13**

964/2SOS

Set de chei combinate in modul SOS



UNIOR

621051	8 - 24 / 12	1680	1F	1		**395,19**

125/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), **vl964/2SOS** (188 x 364 x 30)

964/2ASOS

Set de chei combinate varianta lunga in modul SOS



UNIOR

621052	8 - 24 / 12	1960	1F	1		**427,54**

120/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), **vl964/2ASOS** (188 x 364 x 30)

vl964/2ASOS

Modul SOS pentru chei combinate lungi

UNIOR

	B	L	H				
620884	188	364	30	59	1V	1	**31,13**

964/2BSOS

Set de chei combinate varianta lunga in modul SOS



UNIOR

621053	8 - 24 / 12	1650	1F	1		**438,05**

129/1 (8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 22, 24), **vl964/2BSOS** (188 x 364 x 30)

vl964/2SOS

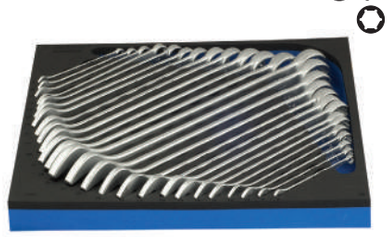
Modul SOS pentru chei combinate

UNIOR

	B	L	H				
620883	188	364	30	49	1V	1	**31,13**

964/2CSOS

Set de chei combinte lungi in modul SOS



UNIOR

621054	6 - 32 / 26	6760	1F	1		**1181,73**

120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32), **vl964/2CSOS** (374 x 364 x 40)

vl964/2CSOS

Modul de plastic pentru chei combinate

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

UNIOR

	B	L	H				
621219	374	364	40	117	1V	1	**59,83**

964/2DSOS

Set de chei combinate si chei hexagonale varianta lunga in modul SOS



UNIOR

621563	27	3170	1F	1		**664,73**

120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24), **220/3L** (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), **vl964/2DSOS** (374 x 364 x 30)

vl964/2DSOS

Modul SOS pentru 964/2DSOS

UNIOR

	B	L	H				
621507	374	364	30	150	1V	1	**59,83**

964/3SOS

Set de chei inelare dublu cotite in modul SOS



UNIOR

621055	6 - 22 / 8	1350	1F	1	271,83

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **vl964/3SOS** (188 x 364 x 30)

vl964/3SOS

Modul SOS pentru chei inelare dublu cotite

UNIOR

	B	L	H				
620886	188	364	30	45	1V	1	31,13

964/3ASOS

Set de chei fixe hexagonale cu cot in modul SOS



UNIOR

623317	8 - 32 / 9	2250	1F	1	365,86

183/2 (8 x 10, 10 x 11, 11 x 13, 12x14, 17 x 19, 19 x 22, 22 x 24, 24 x 27, 30 x 32), **VL964/3ASOS**

vl964/3ASOS

Modul SOS din spuma pentru 964/3ASOS

UNIOR

	B	L	H				
623316	188	364	30	56	1V	1	31,13



964/4SOS

Set de chei inelare dublu cotite in modul SOS



UNIOR

621056	21 - 32 / 4	2220	1F	1	268,23

180/1 (21 x 23, 24 x 26, 25 x 28, 27 x 32), **vl964/4SOS** (188 x 364 x 30)

vl964/4SOS

Modul SOS pentru chei inelare dublu cotite

UNIOR

	B	L	H				
620887	188	364	30	25	1V	1	31,13

964/5SOS

Set de capete chei tubulare si accesorii 1/4" in modul SOS



UNIOR

621057	45	1200	1F	1	729,09

187/2HX (3, 4, 5, 6, 7), 187/2PH (PH 1, PH 2, PH 3), 187/2SL (0.8x4, 1x 5.5, 1.2 x 7), 187/2TX (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), 188.1/1ABI (1/4"), 188.2/2BI (1/4"), 188.3/2 (1/4"), 188.4/2 (1/4" x 150, 1/4" x 55), 188.6/2 (1/4"), 188.7/2 (1/4" - 3/8"), 188.8 (1/4"), 189/2 (E 4, E 5, E 6, E 7, E 8, E 10, E 11), **vl964/5SOS** (188 x 364 x 30)

vl964/5SOS

Modul SOS pentru capete chei tubulare 1/4"

UNIOR

	B	L	H				
620888	188	364	30	25	1V	1	31,13

964/5S12SOS

Set de capete chei tubulare si accesorii 1/4" in modul de SOS



UNIOR

621185	45	1170	1F	1	729,09

188/2 12p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), 188.1/1ABI (1/4"), 188.2/2BI (1/4"), 188.4/2 (1/4" x 55, 1/4"x150), 188.3/2 (1/4"), 188.8 (1/4"), 188.6/2 (1/4"), 188.7/2 (1/4" - 3/8"), 187/2PH (PH 1, PH 2, PH 3), 187/2SL (0.8 x 4, 1 x 5.5, 1.2 x 7), 187/2HX (3, 4, 5, 6, 7), 187/2TX (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 189/2 (E 4, E 5, E 6, E 7, E 8, E 10, E 11), **vl964/5S12SOS** (188 x 364 x 30)

vl964/5S12SOS

Modul SOS pentru 964/5SSOS

UNIOR

	B	L	H				
621237	188	364	30	25	1V	1	31,13

964/6SOS

Set de clesti Bl in modul SOS



UNIOR

621058	3	850	1F	1	252,42

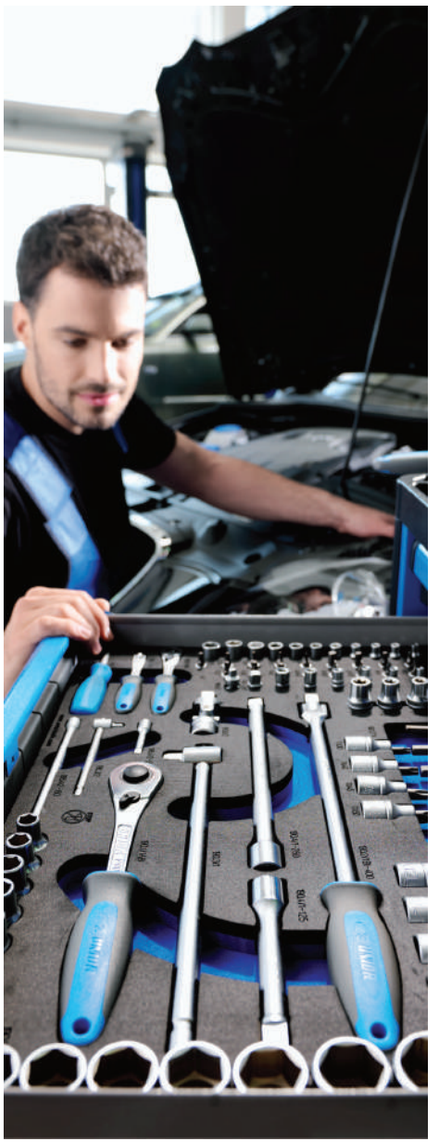
406/1Bl (180), 461/1Bl (160), 508/1Bl (170), **vl964/6SOS** (188 x 364 x 30)

vl964/6SOS

Modul SOS pentru clesti Bl

UNIOR

	B	L	H				
620889	188	364	30	25	1V	1	31,13



vl964/9BSOS

Modul de plastic pentru chei tubulare cu maner TBI

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*
- *material polistiren*

UNIOR

	B	L	H				
621221	188	364	30	49	1V	1	**31,13**

964/8ASOS

Set de clesti inel de siguranta in modul SOS



UNIOR

621061	19 - 60 - 180 / 4	985	1F	1	**323,00**

532PLUS/1DP (180 x 19 - 60),
534PLUS/1DP (180 x 19 - 60),
536PLUS/1DP (180 x 19 - 60),
538PLUS/1DP (180 x 19 - 60),
vl964/8ASOS (188 x 364 x 30)

vl964/8ASOS

Modul SOS pentru clesti inel de siguranta

UNIOR

	B	L	H				
621220	188	364	30	55	1V	1	**31,13**

964/9BSOS

Set de capete chei tubulare cu maner TBI in modul SOS



UNIOR

621063	6	1075	1F	1	**331,32**

629TBI (5.5, 6, 8, 10, 12, 13),
vl964/9BSOS (188 x 364 x 30)

964/9CSOS

Set de surubelnite TBI cu profil profil TX si gaura in modul SOS



UNIOR

621560	8	780	1F	1	**242,06**

621TBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45),
vl964/9CSOS (188 x 364 x 30)

vl964/9CSOS

Modul SOS pentru 964/9CSOS

UNIOR

	B	L	H				
621504	188	364	30	41	1V	1	**31,13**

964/7SOS

Set de clesti menghina in modul SOS



UNIOR

621059	2	1200	1F	1	**222,70**

430/3 (250), **445/1BI** (240),
vl964/7SOS (188 x 364 x 30)

964/9SOS

Set de surubelnite TBI in modul SOS



UNIOR

621062	8	710	1F	1	**206,35**

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **615TBI** (PH 0 x 60, PH 1 x 80, PH 2 x 100); **625TBI** (PZ 2 x 100), **vl964/9SOS** (188 x 364 x 30)

964/9DSOS

Set de surubelnite TBI in modul SOS



UNIOR

621561	8	670	1F	1	**192,63**

621TBI (TX 6, TX 7, TX 8, TX 9),
615TBI (PH 1 x 80, PH 2 x 100),
625TBI (PZ 1 x 80, PZ 2 x 100),
vl964/9DSOS (188 x 364 x 30)

vl964/7SOS

Modul SOS pentru clesti

UNIOR

	B	L	H				
620890	188	364	30	42	1V	1	**31,13**

vl964/9SOS

Modul SOS pentru surubelnite

UNIOR

	B	L	H				
620892	188	364	30	25	1V	1	**31,13**

vl964/9DSOS

Modul SOS pentru 964/9DSOS

UNIOR

	B	L	H				
621505	188	364	30	49	1V	1	31,13



964/10SOS

Set de ciocane si punctatoare in modul SOS



UNIOR

621064	5	1240	1F	1	201,78

640/6 (5), 642/6 (5), 660/6 (150), 812 (300), 820 (32), vl964/10SOS (188 x 364 x 30)

vl964/10SOS

Modul SOS pentru ciocane

UNIOR

	B	L	H				
620893	188	364	30	57	1V	1	31,13

vl964/13SOS

Modul SOS pentru surubelnite cu maner in T

UNIOR

	B	L	H				
620894	188	364	30	25	1V	1	31,13



964/13SOS

Set de surubelnite hexagonale cu maner in T in modul SOS



UNIOR

621067	3 - 10 / 6	755	1F	1	210,58

193HXS (3, 4, 5, 6, 8, 10), vl964/13SOS (188 x 364 x 30)

964/13ASOS

Set de surubelnite cu profil hexagonal si cap sferic cu maner in T in modul SOS



UNIOR

621068	3 - 10 / 6	775	1F	1	203,09

193HX (3, 4, 5, 6, 8, 10), vl964/13ASOS (188 x 364 x 30)

vl964/13ASOS

Modul de plastic pentu chei in T cu cap de surubelnita

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

UNIOR

	B	L	H				
621222	188	364	30	49	1V	1	31,13



964/14SOS

Set de surubelnite cu profil TX cu maner in T in modul SOS



621069	TX 15 - TX 40 / 6	530	1F	1		**277,71**

193TX (TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **vl964/14SOS** (188 x 364 x 30)

vl964/14SOS

Modul SOS pentru 946/14SOS

	B	L	H				
621223	188	364	30	52	1V	1	**31,13**

964/15SOS

Set de scule VDE BI in modul SOS



621070	9	1140	1F	1		**428,81**

406/1VDEBI (180), **461/1VDEBI** (160), **478/1VDEBI** (160), **603VDETBI** (0.4 x 2.5 x 75, 0.6 x 3.5 x 100, 1.0x5.5x125), **613VDETBI** (PH1 x 80, PH2 x 100), **630VDE** (0.5 x 3.0 x 140), **vl964/15SOS** (188 x 364 x 30)

vl964/15SOS

Modul SOS pentru scule VDE

	B	L	H				
620895	188	364	30	41	1V	1	**31,13**

964/16SOS

Set capete chei tubulare cu profil TX in modul SOS



621071	18	1540	1F	1		**568,76**

192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), **191/1** (E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24), **vl964/16SOS** (188 x 364 x 30)

vl964/16SOS

Modul de plastic pentru capete cu profil exterior si interior TX

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

	B	L	H				
621224	188	364	30	43	1V	1	**31,13**

964/17SOS

Set de chei tubulare dublu articulate in modul SOS



621072	8 - 22 / 6	1545	1F	1		**422,48**

202/1 (8 x 9, 10 x 11, 12 x 13, 14x15, 16x17, 19x22), **vl964/17SOS** (188x364x30)

vl964/17SOS

Modul de plastic pentru chei tubulare dublu articulate

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

	B	L	H				
621225	188	364	30	48	1V	1	**31,13**

964/18ASOS

Set de capete cu chei inelare dublu cotite in modul SOS



621073	8 - 19 / 10	2615	1F	1		**771,46**

176 (8, 10, 11, 12, 13, 14, 16, 17, 18, 19), **vl964/18ASOS** (188 x 364 x 30)

vl964/18ASOS

Modul de plastic pentru chei pipa

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*
- *material:spuma polietilena de joasa densitate*

	B	L	H				
621226	188	364	30	56	1V	1	**31,13**

964/18BSOS

Set de capete cu chei inelare dublu cotite in modul SOS



621074	8 - 19 / 10	2615	1F	1		**771,46**

177 (8, 10, 11, 12, 13, 14, 16, 17, 18, 19), **vl964/18BSOS** (188 x 364 x 30)

vl964/18BSOS

Modul SOS pentru 946/18BSOS

	B	L	H				
621227	188	364	30	54	1V	1	**31,13**



964/19SOS

Set de capete chei tubulare 1/2" in modul SOS



621075	29	4770	1F	1	1045,14

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2" x 380), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2"), **192/2HX** (5, 6, 8, 10, 12), **vl964/19SOS** (374 x 364 x 30)

vl964/19SOS

Modul SOS pentru capete chei tubulare 1/2"

	B	L	H				
620896	374	364	30	9,4	1V	1	59,83

964/19S12SOS

Set de capete chei tubulare 1/2" in modul SOS



621186	29	4770	1F	1	1045,14

190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **192/2HX** (5, 6, 8, 10, 12), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2" x 380), **190.3/1** (1/2"), **190.6/2** (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **vl964/19S12SOS** (374 x 364 x 30)

vl964/19S12SOS

Modul SOS pentru 946/19SSOS

	B	L	H				
621238	374	364	30	104	1V	1	59,83

964/22SOS

Set de scule in modul SOS



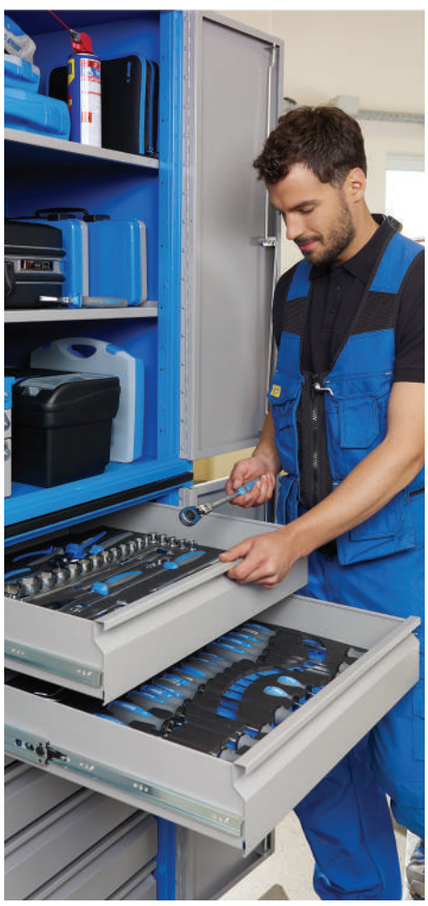
621077	60	7100	1F	1	1704,81

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2" x 380), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2"), **192/2HX** (5, 6, 7, 8, 9, 10, 12, 14, 17), **192/2TX** (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), **641/6** (2, 3, 4, 5, 6, 8), **642/6** (4), **660/6** (150), **670/6** (150), 220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), **vl964/22SOS** (564 x 364 x 30)

vl964/22SOS

Modul SOS pentru capete chei tubulare 1/2"si 1/4

	B	L	H				
620897	564	364	30	134	1V	1	95,73



964/24SOS

Set de cater, bomfaier si ruleta in modul SOS



621079	3	800	1F	1	142,63

710P (5), **556B** (160), **753P** (150), **vl964/24SOS** (188 x 364 x 30)

vl964/24SOS

Modul de plastic pentru fierastrau, cutit si ruleta

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

	B	L	H				
621230	188	364	30	39	1V	1	31,13

964/25SOS

Set de capete chei tubulare 3/8" in modul SOS



621080	6 - 22 / 23	1765	1F	1	579,22

238/1 6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **238.1/1ABI** (3/8"), **238.3/1** (3/8"), **238.4/1** (3/8" x 250, 3/8" x 125), **238.6/1** (3/8"), 238.7/2 (3/8" - 1/2"), **vl964/25SOS** (188 x 364 x 30)

vl964/25SOS

Modul de plastic pentru capete chei tubulare 3/8"

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

	B	L	H				
620898	188	364	30	25	1V	1	31,13

964/26 1/2SSOS

Set de pile in modul SOS



UNIOR

621082	5	1200	1F	1	195,60

760H1/2S (200), **761H1/2S** (200), **763H1/2S** (200), **764H1/2S** (200), **765H1/2S** (200), **vl964/26 1/2SSOS** (188 x 364 x 30)

vl964/26 1/2SSOS

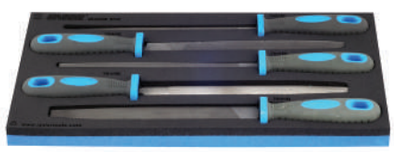
Modul SOS pentru 964/26 1/2

UNIOR

	B	L	H				
620902	188	364	30	49	1V	1	31,13

964/26BSOS

Set de pile in modul SOS



UNIOR

621081	5	1095	1F	1	179,65

760HB (200), **761HB** (200), **763HB** (200), **764HB** (200), **765HB** (200), **vl964/26BSOS** (188 x 364 x 30)

vl964/26BSOS

Suport de plastic pentru pile

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

UNIOR

	B	L	H				
620901	188	364	30	50	1V	1	31,13

964/26SSOS

Set de pile in modul SOS



UNIOR

621083	5	1180	1F	1	195,60

760HS (200), **761HS** (200), **763HS** (200), **764HS** (200), **765HS** (200), **vl964/26SSOS** (188 x 364 x 30)

vl964/26SSOS

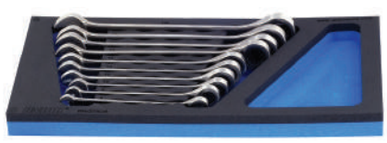
Modul SOS pentru 964/26SSOS

UNIOR

	B	L	H				
620903	188	364	30	49	1V	1	31,13

964/27SOS

Set de chei combinate forjate cu clichet in modul SOS



UNIOR

621084	8 - 19 / 10	1490	1F	1	702,48

160/2 (8, 9, 10, 12, 13, 14, 16, 17, 18, 19), **vl964/27SOS** (188 x 364 x 30)

vl964/27SOS

Modul de plastic pentru chei combinate cu clichet

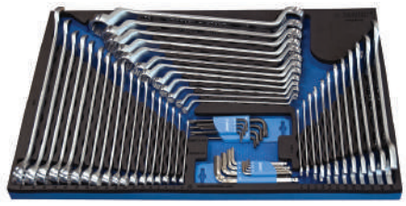
- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*
- *material polistiren*

UNIOR

	B	L	H				
621231	188	364	30	42	1V	1	31,13

964/28SOS

Set de chei tubulare in modul SOS



UNIOR

621387	60	8880	1F	1	1758,76

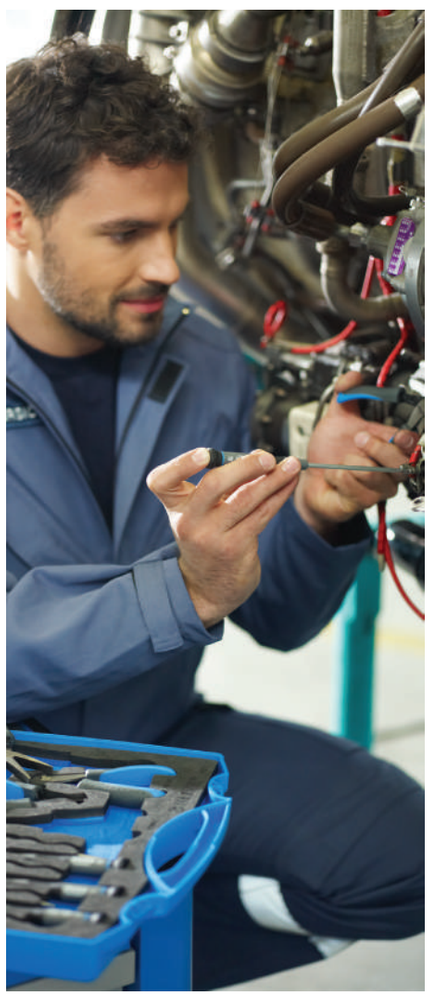
110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), **120/1** (6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27), **180/1** (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), **220/3S** (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), **220/7TX**(TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40),**vl964/28SOS** (564 x 364 x 30)

vl964/28SOS

Modul SOS pentru 964/28SOS

UNIOR

	B	L	H				
621377	564	364	30	111	1V	1	95,73





964/29ASOS

Set de clesti BI si ciocan in modul SOS



UNIOR

623932	28	6400	1F	1	1189,13

215/2 (6 x 7, 8 x 10, 13 x 17, 19 x 22, 24 x 27, 30 x 32), **215.1/2** (6 - 17, 18 - 41), **182/2BTX** (6 x 8, 10 x 12, 14 x 18, 20 x 24), **183/2** (8 x 10, 10 x 11, 11 x 13, 12 x 14, 16 x 18, 17 x 19, 19 x 22, 22 x 24, 24 x 27, 30 x 32), **202/1** (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19), **VL964/29ASOS** (564 x 364 x 30)

VL964/29ASOS

Modul spuma SOS pentru 964/29ASOS

623933	564	364	30	115	1V	1	95,73

964/30SOS

Set de capete chei tubulare si ccesorii in modul SOS



UNIOR

621389	96	7460	1F	1	2414,35

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13), **189/2** (E 4, E 5, E 6, E 7, E 8, E 10, E 11), **187/2HX** (3, 4, 5, 6, 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2PH** (PH 1, PH 2, PH 3), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **188.7/2** (1/4" - 3/8"), **188.8** (1/4"), **238/1 6p** (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **238.1/1FBI** (3/8"), **238.2/1BI** (3/8"), **238.3/1** (3/8"), **238.4/2** (3/8" x 45, 3/8" x 75), **238.4/1** (3/8" x 125, 3/8" x 250), **238.6/1** (3/8"), **238.7/2** (3/8" - 1/2"), **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2" x 380), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2"), **vl964/30SOS** (564 x 364 x 30)

964/31SOS

Set de scule de mana in modul SOS



UNIOR

621390	79	8450	1F	1	3179,19

192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), **192/2TXL** (TX20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), **191/1** (E 10, E 11, E 12, E 14, E 16, E18, E 20, E 22, E 24), **192/2ZX** (M 5, M 6, M 8, M 10, M 12, M 14), **192/2ZXL** (M 6, M 8, M10, M 12, M 14), **192/2HX** (5, 6, 7, 8, 9, 10, 12, 14), **192/2HXL** (5 x 100, 6 x 100, 7 x 100, 8 x 100, 10 x 100, 12 x 100), **190/1 12p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32), **186.4/2** (21, 19, 16), **641/6** (2, 3, 4, 5, 6, 8), **263A** (30 - 150), **vl964/31SOS** (564 x 364 x 30)

964/32SOS

Set de cleste si ciocan BI in modul SOS



UNIOR

621391	14	5250	1F	1	1209,12

406/1BI (180), **466/1BI** (180), **508/1BI** (200), **512/1BI** (200), **442/1HYPO** (240), **430/3** (250), **532PLUS/4DP** (180 x 19 - 60), **534PLUS/4DP** (180 x 19 - 60), **536PLUS/4DP** (180 x 19 - 60), **538PLUS/4DP** (180 x 19 - 60), **812** (400), **819A** (45), **660/6** (200), **642/6** (5), **vl964/32SOS** (564 x 364 x 30)

vl964/32SOS

Modul SOS pentru 964/32SOS

UNIOR

621381	564	364	30	149	1V	1	95,73

vl964/30SOS

Modul SOS pentru 964/30SOS

UNIOR

621379	564	364	30	138	1V	1	95,73

vl964/31SOS

Modul SOS pentru 964/31SOS

UNIOR

621380	564	364	30	148	1V	1	95,73

964/32ASOS

Set de clesti BI si ciocan in modul SOS



UNIOR

623936	14	6000	1F	1	1142,96

406/1BI (180), **430/3** (250), **447/1HPP** (240), **466/1BI** (180), **514/1BI** (160), **512/1BI** (200), **532PLUS/1DP** (180 x 19 - 60), **534PLUS/1DP** (180 x 19 - 60), **536PLUS/1DP** (180 x 19 - 60), **538PLUS/1DP** (180 x 19 - 60), **642/6** (5), **660/6** (200), **812** (400), **820A** (40), **vl964/32ASOS** (564 x 364 x 30)

vl964/32ASOS

Modul spuma SOS pentru 964/32ASOS UNIOR

623937	564	364	30	115	1V	1	95,73

964/33SOS

Set de surubelnite in modul SOS



UNIOR

621392	30	3200	1F	1	999,41

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.6 x 8.0 x 175), **615TBI** (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), **626TBI** (PH 1 x 25, PH2x25), **627TBI** (1.0 x 5.5 x 25, 1.2 x 6.5 x 25), **621TBI** (TX 6, TX 8, TX 10, TX 15, TX20, TX 25, TX 27, TX 30, TX 40), **629TBI** (6, 7, 8, 9, 10, 11, 12, 13), **vl964/33SOS** (564 x 364 x 30)

vl964/33SOS

Modul SOS pentru 964/33SOS

UNIOR

621382	564	364	30	105	1V	1	95,73

964/34SOS

Set de surubelnite cu maner in T in modu SOS



621393	18	2360	1F	1	721,60

193HXS (2.5, 3, 4, 5, 6, 8, 10); **193TX** (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX40, TX 45), **760H1/2S** (200), **764H1/2S** (200), **556B** (160), **vl964/34SOS** (564 x 364 x 30)

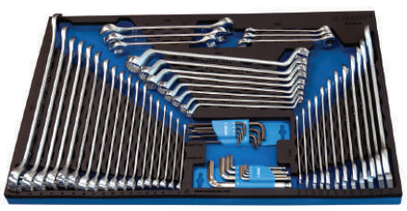
vl964/34SOS

Modul SOS pentru 964/34SOS

621383	564	364	30	138	1V	1	95,73

964/35SOS

Set de chei tubulare in modul SOS



621394	63	7630	1F	1	1694,65

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), **120/1** (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27), **180/1** (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **183/2** (8 x 10, 10 x 11, 11 x 13, 12 x 14, 17 x 19, 19 x 22), **220/3SPH** (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), **220/7TXPH** (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40),**vl964/35SOS** (564 x 364 x 30)

vl964/35SOS

Modul SOS pentru 964/35SOS

621384	564	364	30	110	1V	1	95,73

964/36SOS

Set de capete chei tubulare cu accesorii in modul SOS



621395	88	6820	1F	1	2180,61

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13), **189/2** (E4, E5, E6, E7, E8, E10,E 11), 187/2HX (3, 4, 5, 6, 7), **187/2TX** (TX 8, TX10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2PH** (PH 1, PH 2, PH 3), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), 188.3/2 (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **188.7/2** (1/4" - 3/8"), **188.8** (1/4"), **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **191/1** (E10, E11, E12, E14), **192/2HX** (6, 7, 8, 9, 10, 12), **192/2TX** (TX30, TX 40, TX 45, TX 50), **192/2ZXL** (M 6, M 8, M 10, M 12), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2" x 380), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2"x125), **190.6/2** (1/2"), **vl964/36SOS** (564 x 364 x 30)

vl964/36SOS

Modul SOS pentru 964/36SOS

621385	564	364	30	152	1V	1	95,73

964/37SOS

Set de surubelnite in modul SOS



621396	28	2600	1F	1	770,78

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.6 x 8.0 x 175), **615TBI** (PH 0 x 60, PH 1 x 80, PH2x100, PH 3 x 150), **626TBI** (PH 1 x 25, PH2x25), **627TBI** (1.0 x 5.5 x 25, 1.2 x 6.5 x 25), **621TBI** (TX 6, TX 8, TX 10, TX 15, TX20, TX 25, TX 27, TX 30, TX 40), **193HXS** (3, 4, 5, 6, 8, 10), **vl964/37SOS** (564 x 364 x 30)

964/46SOS

Set de chei si surublenite in modul SOS



623987	36	3500	1F	1	838,93

120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24), **220/3** (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), **605TBI** (0.4x2.5x75, 0.5x3.0x 80, 0.6x3.5x100, 0.8x4.0x100, 1.2x6.5x150, 1.2 x 8.0 x 175), **615TBI** (PH1x80, PH2x100), **627TBI** (1.0 x 5.5 x 25), **626TBI** (PH2x25), **VL964/46SOS** (564 x 364 x 30)

vl964/46SOS

Modul spuma SOS pentru 964/46ASOS

623968	564	364	30	115	1V	1	95,73

964/47SOS

Set de capete chei tubulare in modul SOS



623988	67	6000	1F	1	1596,77

188/2 6p (5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), **187/2HX** (3, 4, 5, 6, 7), **187/2PH** (PH1, PH 2), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX27, TX 30, TX 40), **188.1/1ABI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4"x150, 1/4" x 55), **188.6/2** (1/4"), **188.8** (1/4"), **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 30, 32), **190.1/1ABI** (1/2"), 190.3/1 (1/2"), **190.4/1S** (1/2" x 125, 1/2" x 250), **190.6/2** (1/2"), **641/6** (3, 4, 5, 6), **642/6** (5), **660/6** (150, 200), **vl964/47SOS** (564 x 364 x 30)

vl964/47SOS

Modul spuma SOS pentru 964/47SOS

623969	564	364	30	115	1V	1	95,73

vl964/37SOS

Modul SOS pentru 964/37SOS

621386	564	364	30	118	1V	1	95,73

964/48SOS

Set de clesti BI si ciocan modul SOS



UNIOR

623989	11	4100	1F	1	1063,91

405/1BI (180), 430/3 (250), 447/1HPP (240), 466/1BI (180), 508/1BI (170), 532PLUS/1DP (180x19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60), 582/3P (150), 819A (45), vl964/48SOS (564 x 364 x 30)

vl964/48SOS

Modul spuma SOS pentru 964/48SOS UNIOR

	B	L	H				
623970	564	364	30	115	1V	1	95,73

964/49SOS

Set de scule in modul SOS



UNIOR

623990	13	3200	1F	1	606,31

300/2C (320), 556A (160), 701 (0.05 - 1 x 20), 710P (3), 753P (150), 760H1/2S (200), 761H1/2S (200), 763H1/2S (200), 764H1/2S (200), 812 (400), 820A (32), 2035, 2087 (1), vl964/49SOS (564 x 364 x 30)

vl964/49SOS

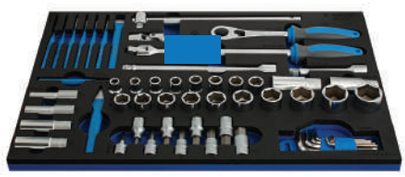
Modul spuma SOS pentru 964/49SOS UNIOR

	B	L	H				
623971	564	364	30	115	1V	1	95,73



964/50SOS

Set de capete chei tubulare in modul SOS



UNIOR

623991	57	7200	1F	1	1616,47

190.1/1ABI (1/2"), 190.2/1BI (1/2" x 380), 190.3/1 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.6/2 (1/2"), 190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32) 190/1L12p (10, 13, 17, 19, 22, 24), 192/2HX (5, 6, 7, 8, 9, 10, 12, 14, 17) 220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), 641/6 (2, 3, 4, 5, 6, 8), 642/6 (4), 660/6 (150), 670/6 (150), vl964/50SOS (564x364x 30)

vl964/50SOS

Modul spuma SOS pentru 964/50SOS UNIOR

	B	L	H				
623998	564	364	30	115	1V	1	95,73

964/51SOS

Set de clesti BI si ciocan in modul SOS



UNIOR

623992	14	4000	1F	1	1103,17

406/1BI (180), 430/3 (250), 445/1BI (240), 466/1BI (180), 508/1BI (200), 512/1BI (200), 532PLUS/1DP (180 x 19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60), 812 (400), 642/6 (5), 660/6 (200), 820 (40), vl964/51SOS (564 x 364 x 30)

vl964/51SOS

Modul spuma SOS pentru 964/51SOS UNIOR

	B	L	H				
623999	564	364	30	115	1V	1	95,73



964/52SOS

Set de scule in modul SOS



UNIOR

623993	8	4490	1F	1	623,48

812 (800, 1000), 300/2 (400, 500), 750 (407), 760H1/2S (200), 763H1/2S (200), 556A (160), vl964/52SOS (564x364x30)

vl964/52SOS

Modul spuma SOS pentru 964/52SOS UNIOR

	B	L	H				
624011	564	364	30	115	1V	1	95,73

964/53SOS

Set de capete chei tubulare in modul de spuma SOS



UNIOR

623995	22	12000	1F	1	2232,66

197.1/1 (3/4" x 500), 197.3/1 (3/4"), 197.4/1 (3/4" x 200, 3/4"x400), 197/1 6p (22, 24, 27, 30, 32, 36, 38, 41, 46, 50), 197/2AHX (14, 17, 19, 22), 197.7/1 (3/4" - 1/2"), 190.7/2 (1/2" x 3/4"), 2035, 2087 (1), vl964/53SOS (564 x 364 x 30)

vl964/53SOS

Modul spuma SOS pentru 964/53SOS UNIOR

	B	L	H				
624013	564	364	30	115	1V	1	95,73

964/54SOS

Set de scule in modul SOS



623994	17	5500	1F	1	**935,05**

215/2 (8 x 10, 13 x 17, 19 x 22, 24 x 27), **183/2** (8 x 10, 10 x 11, 11 x 13, 12 x 14, 16 x 18, 17 x 19, 22 x 24, 24 x 27, 30 x 32), **206/2** (220 x 60 x 140), **631B** (6-24), **480/6** (1.1/2"), **710P** (5), **vl964/54SOS** (564 x 364 x 30)

vl964/54SOS

Modul de spuma SOS pentru 964/54SOS

	B	L	H				
624012	564	364	30	124	1V	1	**95,73**

vl964ECO3

Modul SOS pentru 964ECO3

	B	L	H				
620873	498	135	30	49	1V	1	**32,15**

vl964ECO2

Modul SOS pentru 964ECO2

	B	L	H				
620871	498	135	30	49	1V	1	**32,15**

964ECO2

Set de chei combinate varianta scurta in modul SOS



621287	8 - 24 / 12	1620	1F	1	**396,21**

125/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), **vl964ECO2** (498 x 135 x 30)

vl964ECO5

Modul SOS pentru 964ECO5

	B	L	H				
620874	498	135	30	55	1V	1	**32,15**

964ECO2A

Set de chei combinate varianta lunga in modul SOS



621288	8 - 24 / 12	1900	1F	1	**428,56**

120/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), **vl964ECO2A** (498 x 135 x 30)

vl964ECO2A

Modul SOS pentru 964ECO2A

	B	L	H				
620872	498	135	30	64	1V	1	**32,15**

964ECO3

Set de capete chei inelare dublu cotite in modul SOS



621289	6 - 22 / 8	1350	1F	1	**272,85**

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **vl964ECO3** (498 x 135 x 30)

964ECO5

Set de capete chei tubulare si accesorii 1/2" in modul SOS



621290	45	1115	1F	1	**730,16**

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), **189/2** (E4, E5, E6, E7, E8, E10, E11), **187/2HX** (3, 4, 5, 6, 7), **187/2PH** (PH 1, PH2, PH 3), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX27, TX 30, TX 40), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 150, 1/4" x 55), **188.6/2** (1/4"), **188.7/2** (1/4" - 3/8"), **188.8** (1/4"), **vl964ECO5** (498 x 135 x 30)

964ECO6

Set de clesti BI in modul SOS



621291	4	1220	1F	1	**354,38**

406/1BI (180), **461/1BI** (160), **514/1BI** (160), **445/1BI** (240), **vl964ECO6** (498 x 135 x 30)

vl964ECO6

Modul SOS pentru 964ECO6

	B	L	H				
620875	498	135	30	53	1V	1	**32,15**

964ECO9

Set de surubelnite TBI in modul SOS



621292	8	690	1F	1	**207,42**

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **615TBI** (PH 0 x 60, PH 1 x 80, PH 2 x 100), **625TBI** (PZ 2 x 100), **vl964ECO9** (498 x 135 x 30)

vl964ECO9

Modul SOS pentru 964ECO9

	B	L	H				
620876	498	135	30	53	1V	1	**32,15**

964ECO10

Set de ciocane si punctatoare in modul SOS



621293	5	1200	1F	1	**202,85**

640/6 (5), **642/6** (5), **660/6** (150), **812** (300), **820** (32), **vl964ECO10** (498 x 135 x 30)

vl964ECO10

Modul pentru 964ECO10

UNIOR

	B	L	H				
620877	498	135	30	49	1V	1	**32,15**

964ECO19

Set de capete chei tubulare 1/2" in modul SOS



UNIOR

621294	10 - 32 / 23	3420	1F	1	**785,57**

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2"), **vl964ECO19** (498 x 135 x 30)

vl964ECO19

Modul SOS pentru 964ECO19

UNIOR

	B	L	H				
620878	498	135	30	42	1V	1	**32,15**

964ECO26 1/2S

Set de pile in modul SOS



UNIOR

621295	4	880	1F	1	**169,43**

760H1/2S (200), **763H1/2S** (200), **765H1/2S** (200), **768H1/2S** (200), **vl964ECO26 1/2S** (498 x 135 x 30)

vl964ECO26 1/2S

Modul SOS pentru 964ECO26 1/2S

UNIOR

	B	L	H				
620879	498	135	30	56	1V	1	**32,15**

1000A

Set scule 171 piese

- *Proiectat pentru intretinere in atelierele de automobile, in domeniul agricol si in industrie*

UNIOR

608140	171	29070	1K	1	**6510,50**

120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32)

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)

190.6/2 (1/2")

190.4/1 (1/2" x 125, 1/2" x 250)

190.3/1 (1/2")

190.1/1ABI (1/2")

190.2/1BI (1/2")

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)

188.4/2 (1/4" x 55, 1/4" x 150)

188.3/2 (1/4")

188.1/1ABI (1/4")

188.2/2BI (1/4")

200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)

250/1 (250)

205/2 (220 x 60 x 140)

481/6 (1.1/2")

430/3 (250)

563R/7PR (280)

631 (6 - 12)

640/6 (2, 4, 6, 8)

641/6 (2, 4, 6, 8, 10)

642/6 (5)

660/6 (150, 250)

670/6 (150)

682/2 (2 x 230 x 190)

812 (300, 500, 1000)

820 (22)

750 (407)

701 (0.05 - 1 x 13)

192/2HX (6, 8, 10)

6480C8 (1.2 x 6.5 x 41, 1.6 x 8.0 x 41, 2.0 x 12.0 x 41)

6483C8 (PH 2, PH 3)

6484C8 (PH 4)

6489C8 (5, 6)

6492C8 (TX 20, TX 25, TX 30, TX 40)

6762.1 (1/2" x 144)

6762.2 (1/2" - 5/16")

192/2PH (PH 2)

192/2PZ (PZ 2)

192/2TX (TX 25, TX 27, TX 30, TX 40)

193HX (2.5, 4, 5, 8)

406/1BI (180)

461/1BI (160)

512/1BI (170)

514/1BI (160)

447/1HPP (240)

238.1/1FBI (3/8")

238.4/2 (3/8" x 45, 3/8" x 75)

238.7/2 (3/8"-1/2")

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)

615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150)

621TBI (TX 27, TX 30, TX 40)

625TBI (PZ 2 x 100)

626TBI (PH 2 x 25)

627TBI (1.2 x 6.5 x 25)

220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

532PLUS/1DP (180 x 19 - 60)

534PLUS/1DP (180 x 19 - 60)

536PLUS/1DP (180 x 19 - 60)

538PLUS/1DP (180 x 19 - 60)

1000AC

Set scule 21 piese

- *Setul de scule este destinat ca o baza pentru electricieni*

UNIOR

604577	21	4244	1K	1	**931,11**

385H (4 - 28)

406/1VDEBI (180)

461/1VDEBI (160)

472/1VDEBI (160)

478/1VDEBI (160)

508/1VDEBI (200)

603VDETBI (0.4 x 2.5 x 75, 0.6 x 3.5 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150)

605CR (1.0 x 5.5 x 125, 1.2 x 6.5 x 150)

613VDETBI (PH1 x 80, PH2 x 100)


630VDE (0.5 x 3.0 x 140)


660/6 (200)

665/6A (250 x 10)


710P (3)


753W (150)

761HB (200)


812 (300)

1000AD

Set scule 343 piese

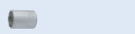
- *Setul de scule este destinat ca o baza pentru electricieni*

UNIOR

611884	343	7000	1K	1	**2328,68**

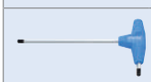

188.1/1ABI (1/4")

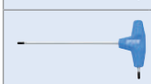

188.2/2BI (1/4")


188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)


188.3/2 (1/4")

188.4/2 (1/4" x 55, 1/4" x 150)


193HX (2.5, 4)


193TX (TX 6, TX 9, TX 20, TX 25)


220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)


220/3SL (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)


250/1 (200)


385H (4 - 28)


423.1R (3, 5)


423.1B (4, 6)


423.1J (5, 8)

423.2R (4)


423.2B (4)

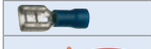

423.3R (1.9)


423.3B (1.9)


423.3J (2.8)


423.5B (5)


423.7R (6.3 x 0.8)


423.7B (6.3 x 0.8)


406/1VDEBI (180)


461/1VDEBI (160)


466/1VDEBI (180)


478/1VDEBI (160)


508/1VDEBI (200)


512/1VDEBI (200)


580/1VDEBI (170)


426/3A (0.5 - 6 x 220)


603VDETBI (0.5 x 3.0 x 100, 0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 0.4 x 2.5 x 75)


613VDETBI (PH2 x 100, PH1 x 80)


630VDE (0.5 x 3.0 x 140)

665/6A (250 x 10)

710P (5)

750 (407)

812 (300)

1000B

Set scule 192 piese

- *Setul de scule ofera toate sculele pentru intretinere completa in atelierele de reparatii auto, agricole si intretinere in industrie*

UNIOR

608141	192	48000	1K	1	**9059,74**

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

186.4/2 (16, 19, 21)

188.1/1ABI (1/4")

188.2/2BI (1/4")

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)

188.3/2 (1/4")

188.4/2 (1/4" x 55, 1/4" x 150)

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)

190.1/1ABI (1/2")

190.2/1BI (1/2")

190.3/1 (1/2")

190.4/1 (1/2" x 125, 1/2" x 250)

190.6/2 (1/2")

192/2HX (6, 8)

192/2PH (PH 2)

192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60)

200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)

206/2 (220 x 60 x 140)

212/2 (17, 19)

215/2 (10 x 11, 12 x 13)

220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)

238.1/1FBI (3/8")

238.4/2 (3/8" x 45, 3/8" x 75)

250/1 (250)

300/2 (400)

406/1BI (180)

445/1BI (180, 240)

455/1BI (160)

466/1BI (180)

514/1BI (160)

532PLUS/1DP (180 x 19 - 60)

534PLUS/1DP (180 x 19 - 60)

536PLUS/1DP (180 x 19 - 60)

538PLUS/1DP (180 x 19 - 60)

430/3 (175, 250)

431/2 (325)

481/6 (1.1/2")

563R/7PR (280)

605TBI(0.4 x 2.5 x 75, 0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)

615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)

626TBI (PH 2 x 25)

627TBI (0.8 x 4.0 x 25)

629TBI (6, 8, 10, 12, 13)

630VDE (0.6 x 3.5 x 180)

631 (6 - 12)

631B (6 - 24)

640/6 (2, 3, 5, 6, 8, 10)

642/6 (5)

660/6 (200, 250)

670/6 (150)

680/2 (2 x 230 x 190)

681/2 (300)

682/2 (2 x 230 x 190)

686/2 (16 x 260)

701 (0.05 - 1 x 13)

750 (407)

812 (300, 500, 1000)

820 (22)

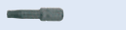
6480C8 (1.2 x 6.5 x 41, 1.6 x 8.0 x 41, 2.0 x 12.0 x 41)

6483C8 (PH 2, PH 3)

6484C8 (PH 4)



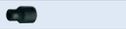
6489C8 (5, 6)



6492C8 (TX 20, TX 25, TX 30, TX 40)



6762.1 (1/2" x 144)



6762.2 (1/2" - 5/16")

1000D

Set scule 147 piese

- *Conceput pentru intretinerea de baza in service-uri auto, agricole si in industrie*

UNIOR

608143	147	26500	1K	1	**5648,80**



110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)



125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)



180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

186.4/2 (21)



188.1/1ABI (1/4")



188.2/2BI (1/4")



188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)



188.3/2 (1/4")

188.4/2 (1/4" x 150, 1/4" x 55)



190.1/1ABI (1/2")



190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)



190.2/1BI (1/2")



190.3/1 (1/2")



190.4/1 (1/2" x 125, 1/2" x 250)



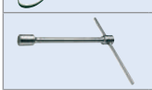
190.6/2 (1/2")



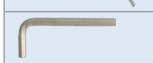
200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)



205/2 (220 x 60 x 140)



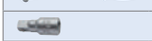
212/2 (24)



220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)



238.1/1FBI (3/8")



238.4/2 (3/8" x 45, 3/8" x 75)

300/2 (400)



405/1BI (180)



425/4A (1.5 - 6 x 240)



430/3 (175)

431/2 (325)



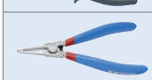
447/1HPP (240)



455/1BI (160)



514/1BI (160)



532PLUS/1DP (180 x 19 - 60)



534PLUS/1DP (180 x 19 - 60)



536PLUS/1DP (180 x 19 - 60)



538PLUS/1DP (180 x 19 - 60)



563R/7PR (280)



600TBI (1.0 x 5.5 x 100, 1.2 x 6.5 x 125, 1.2 x 8.0 x 150)



605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)

615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)

626TBI (PH 2 x 25)

627TBI (0.8 x 4.0 x 25)

631 (6 - 12)

640/6 (2, 3, 4, 5, 6)

642/6 (4)

660/6 (200, 250)

670/6 (150)

701 (0.05 - 1 x 13)

750 (407)

812 (300, 500, 1000)

820 (22)

1000F

Set scule 129 piese

- *Conceput pentru intretineea de baza pentru profesionisti si amatori*

UNIOR

608145	129	31500	1K	1	**5862,70**

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

185/2 (16 x 145)

190.1/1ABI (1/2")

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)

190.2/1BI (1/2")

190.3/1 (1/2")

190.4/1 (1/2" x 125, 1/2" x 250)

190.6/2 (1/2")

197.1/1 (3/4" x 500)

197/1 6p (22, 24, 27, 30, 32, 36, 38, 41, 46)

197.3/1 (3/4")

197.4/1 (3/4" x 400, 3/4" x 200)

197.7/1 (3/4" - 1/2")

220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)

250/1 (250)

406/1BI (180)

455/1BI (160)

461/1BI (160)

514/1BI (160)

580/1BI (170)

425/4A (1.5 - 6 x 240)

430/3 (175)

447/6 (240)

532PLUS/1DP (180 x 19 - 60)

536PLUS/1DP (180 x 19 - 60)

563R/7PR (280)

600TBI (1.2 x 6.5 x 125, 1.2 x 8.0 x 150)

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)

630VDE (0.6 x 3.5 x 180)

631 (6 - 12)

640/6 (3, 4)

641/6 (2, 3, 4, 5, 6)

642/6 (4)

660/6 (150, 200)

670/6 (150, 200)

750 (407)

812 (500)

820 (40)

1000G

Set scule 110 piese

- *Conceput pentru intretineea de baza pentru profesionisti si amatori*

UNIOR

608146	110	20000	1K	1	4073,34

- **110/1** (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)
- **125/1** (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
- **180/1** (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)
- **186.4/2** (21)
- **190.1/1ABI** (1/2")
- **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)
- **190.2/1BI** (1/2")
- **190.3/1** (1/2")
- **190.4/1** (1/2" x 125, 1/2" x 250)
- **190.6/2** (1/2")
- **200/2** (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)
- **220/3** (3, 4, 5, 6, 8, 10, 12, 14)
- **238.1/1FBI** (3/8")
- **238.4/2** (3/8" x 45, 3/8" x 75)
- **300/2** (400)
- **406/1BI** (180)
- **425/4A** (1.5 - 6 x 240)
- **430/3** (175)
- **445/1BI** (240)
- **447/1HPP** (240)
- **461/1BI** (160)
- **514/1BI** (160)
- **572R/7PR** (280)
- **605TBI** (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
- **615TBI** (PH 1 x 80, PH 2 x 100, PH 4 x 200)
- **626TBI** (PH 2 x 25)
- **627TBI** (0.8 x 4.0 x 25)
- **631** (6 - 12)
- **640/6** (2, 3, 4)
- **642/6** (3)
- **660/6** (150, 200)
- **670/6** (150)
- **812** (500)

1000K

Set scule 80 piese

- *Conceput pentru intretinerea de baza in service-uri auto, agricole si in industrie*

UNIOR

608148	80	20000	1K	1	3216,26

- **110/1** (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)
- **180/1** (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)
- **186.4/2** (21)
- **190.1/1ABI** (1/2")
- **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)
- **190.2/1BI** (1/2")
- **190.3/1** (1/2")
- **190.4/1** (1/2" x 125, 1/2" x 250)
- **190.6/2** (1/2")
- **212/2** (19)
- **220/3** (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)
- **238.1/1FBI** (3/8")
- **238.4/2** (3/8" x 45, 3/8" x 75)
- **300/2** (400)
- **405/1BI** (180)
- **447/1HPP** (240)
- **461/1BI** (160)
- **506/1BI** (140)
- **514/1BI** (160)
- **430/3** (175)
- **572R/7PR** (280)
- **605TBI** (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
- **615TBI** (PH 2 x 100, PH 3 x 150)
- **631** (6 - 12)
- **812** (500)

1000L

Set scule 75 piese

- *Conceput pentru intretinerea de baza in service-uri auto, agricole si in industrie*

UNIOR

608149	75	14200	1K	1	3018,71

- **125/1** (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
- **186.4/2** (21)
- **190.1/1ABI** (1/2")
- **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)
- **190.2/1BI** (1/2")
- **190.3/1** (1/2")
- **190.4/1** (1/2" x 125, 1/2" x 250)
- **190.6/2** (1/2")
- **212/2** (24)
- **238.1/1FBI** (3/8")
- **238.4/2** (3/8" x 45, 3/8" x 75)
- **300/2** (400)
- **405/1BI** (160)
- **445/1BI** (240)
- **455/1BI** (160)
- **506/1BI** (140)
- **512/1BI** (170)
- **430/3** (175)
- **563R/7PR** (280)
- **605TBI** (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
- **615TBI** (PH 1 x 80, PH 2 x 100, PH 3 x 150)
- **626TBI** (PH 2 x 25)
- **627TBI** (0.8 x 4.0 x 25)
- **630VDE** (0.6 x 3.5 x 180)
- **631** (6 - 12)
- **640/6** (1, 3, 5, 8)
- **642/6** (5)
- **660/6** (150, 250)
- **670/6** (150)
- **812** (500)





1000S

Set scule 51 piese

- *Concep[ut pentru intretinerea dse baza in diferite zone, de la ateliere de reparatii masini, service agricol si intreinere in industrie. Este recomandat ca un set de scule pentru vehicule.*

UNIOR

609329	51	11300	1K	1	1782,99

125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24)

190/1 6p (13, 17, 19, 22, 24)

190.1/1ABI (1/2")

190.4/1 (1/2" x 125)

190.6/2 (1/2")

220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

250/1 (200)

406/1BI (180)

447/1HPP (240)

461/1BI (160)

512/1BI (200)

514/1BI (160)

605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150)

615TBI (PH 1 x 80, PH 2 x 100)

625TBI (PZ 2 x 100)

626TBI (PH 2 x 25)

627TBI (1.2 x 6.5 x 25)

710P (2)

812 (500)

1000T

Set scule 53 piese

- *Conceput pentru intretinerea de baza in instalatii electrice*

UNIOR

609330	53	9430	1K	1	2409,87

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

250/1 (200)

406/1VDEBI (160)

420/1VDEBI (180)

447/1VDEBI (240)

466/1VDEBI (180)

478/1VDEBI (160)

508/1VDEBI (170)

512/1VDEBI (170)

514/1BI (160)

580/1VDEBI (230)

425/4AB (1.5 - 6 x 240)

603VDETBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

613VDETBI (PH0 x 60, PH1 x 80, PH2 x 100)

630VDE (0.5 x 3.0 x 140, 0.6 x 3.5 x 180)

641/6 (5)

660/6 (150)

665/6A (250 x 10)

710P (3)

750 (407)

760H1/2S (250)

761H1/2S (250)

812 (300)

817 (1000)

820 (32)

1000V

Set scule 49 piese

- *Conceput pentru intretinere de baza in instalatiile de tevi*

UNIOR

609331	49	13335	1K	1	2856,34

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

250/1 (250)

355/6

360/6 (3 - 32)

363 (4 - 36)

406/1BI (180)

430/3 (250)

447/1HPP (240)

449/1PYTHON (240)

461/1BI (160)

481/6 (1/2")

482/6 (1.1/2")

531/4 (224)

572R/7PR (280)

605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)

630VDE (0.6 x 3.5 x 180)

660/6 (250)

670/6 (250)

710P (3)

750 (407)

761H1/2S (250)

812 (500)

820 (32)



1013A

Set de scule pentru instalatori

- *Conceput pentru intretinere de baza in instalatiile de tevi*

UNIOR

623943	45	6900	1K	1	2016,87


160/2 (10, 13, 17, 19, 24)

188.8 (1/4")


188.9 (1/4" - 1/4")


358/6 (3 - 16)


360/6 (6 - 67)


363 (4 - 36)


449/1PYTHON (300)


449.1 (300)


482/6 (1.1/2")


487/2P (235)

556D (195)


602TBI (0.8 x 4.0 x 150, 1.0 x 5.5 x 125)


605TBI (1.6 x 10.0 x 200)


615TBI (PH 1 x 80, PH 2 x 100)

630VDE (0.5 x 3.0 x 140)

6460C6,3 (0,5 x 4,0 x 25, 1,2 x 6,5 x 25)

6463C6,3 (PH 1, PH 2)

6466C6,3 (PZ 1, PZ 2, PZ 3)

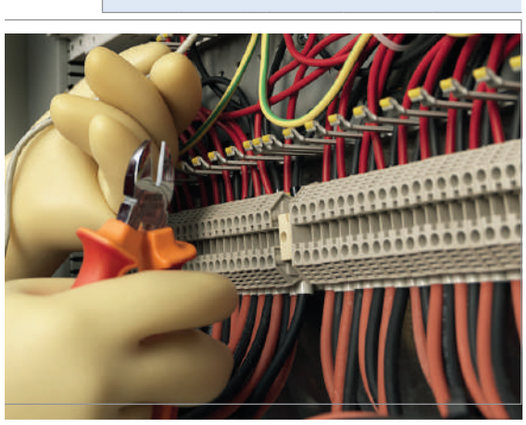
6469C6,3 (HX 3, HX 4, HX 5, HX 6)

6472C6,3 (TX 6, TX 8, TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)


710W (2)


753P (150)


812A (500)





Testare extrema
Performanta excelenta

Priceperea in cum sa faca scule de mana de calitate exista in familia lucratorilor Unior de 100 de ani. Dar in fapt inovatia constanta si dezvoltarea de noi scule este ceea ce separa Unior de competitie.

911/5 ak1

Trusa profesionala de scule pentru mecanici auto TSA in cutie metalica 911/5 ak1



UNIOR

616643	65	20000	1K	1	1622,81


111 E PB Set chei fixe duble drepte 6-32/12 piese (6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x26, 25x28, 27x32)


181 E PB Set chei inelare dublu cotite 6-22/8 piese (6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22)


190/1 Capete chei tubulare 1/2" 20 piese (8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 29, 30, 32)


190.9/2BI Antrenor cu clichet ½" 252 mm


190.3/1 Antrenor parghie glisanta ½" 300 mm


190.5/1 Prelungitor scurt ½" 125 mm


190.4/1 Prelungitor lung ½" 250 mm


190.6/2 Intermediar cardanic ½" 75,5 mm


605 NI Surubelnita lata 1,0x5,5x125 mm


605 NI Surubelnita lata 1,2x6,5x150 mm


615 NI Surubelnita Phillips PH 1x80 mm

615 NI Surubelnita Phillips PH 2x100 mm

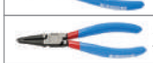

615 NI Surubelnita Phillips PH 3x150 mm


406/4P Cleste combinat 160 mm


506/4P Cleste cu varfuri semirotunde si tais 160 mm


461/4P Cleste cu tais lateral 160 mm


532PLUS/4DP Cleste inele siguranta ext. varfuri drepte 180 mm (19-60 mm)

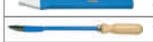

536PLUS/4DP Cleste inele siguranta int. varfuri drepte 180 mm (19-60 mm)


441/4P Cleste reglabil 240 mm


565R/7P Foarfeca universala de taiat tabla 250 mm


660/6A Dalta lata 125 mm


670/6 Dalta ascutita 150 mm


777/6C Razuitor cu trei muchii 150 mm


812 Ciocan lacatuserie 400 g


820A Ciocan masa plastica Φ 32 mm


760B Pila dreptunghiulara bastard 200


763B Pila rotunda bastard 200 mm


911/5 Cutie de scule cu 5 compartimente 450x215x240 mm

911/5 ak2

Trusa profesionala de scule pentru instalatori TSI in cutie metalica 911/5 ak2



UNIOR

616644	43	20000	1K	1	1454,93


111 E PB Set chei fixe duble drepte 6-32/12 piese (6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x26, 25x28, 27x32)


117/4 Cheie fixa simpla brunata 36 mm


117/4 Cheie fixa simpla brunata 41mm


181 E PB Set chei inelare dublu cotite 6-22/8 piese (6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22)


220SL Set chei imbus lungi cu bila 1,5-10/9 piese (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)


205/2 Cheie filtru cu curea 60-140 mm


406/4P Cleste combinat 180 mm


441/4P Cleste reglabil 240 mm


482/6 Cleste tevi cu gura in S 1"


506/4P Cleste cu varfuri semirotunde si tais 160 mm

660/6 Dalta lata 150 mm

660/6A Dalta lata 125 mm

670/6 Dalta ascutita 150 mm

777/6C Razuitor cu trei muchii 150 mm

812 Ciocan lacatuserie 500 g

812 Ciocan lacatuserie 1000 g

429/3 Cleste menghina 250 mm

492/6 Cleste pentru instalatori 2"

565R/7P Foarfeca universala de taiat tabla 250 mm

605 NI Surubelnita lata 1,0x5,5x125

605 NI Surubelnita lata 1,2x6,5x150

605 NI Surubelnita lata 1,6x10,0x200

763B Pila rotunda bastard 200 mm

911/5 Cutie de scule cu 5 compartimente 450x215x240 mm

911/5 ak3

Trusa profesionala de scule pentru lacatusi TSL in cutie metalica 911/5 ak3

UNIOR

616645	80	20000	1K	1	1690,36

111 E PB Set chei fixe duble drepte 6-32/12 piese (6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x26, 25x28, 27x32)

181 E PB Set chei inelare dublu cotite 6-32/12 piese (6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23,24x27, 25x28, 27x32)

126/2 PB Set chei combinate 8-22/8 piese (8, 10, 11, 13, 15, 17, 19, 22)

220 PB Set chei imbus scurte 3-14/8 piese (3, 4, 5, 6, 8, 10, 12, 14)

190/1 Capete chei tubulare 1/2" 10 piese (8, 10, 12, 13, 14, 17, 19, 20, 22, 24)

190.9/2BI Antrenor cu clichet ½" 252 mm

190.3/1 Antrenor parghie glisanta ½" 300 mm

190.5/1 Prelungitor scurt ½" 125 mm

190.4/1 Prelungitor lung ½" 250 mm

605 NI Surubelnita lata 0.8x4.0x100

605 NI Surubelnita lata 1,0x5,5x125

605 NI Surubelnita lata 1,2x6,5x150

605 NI Surubelnita lata 1,6x10,0x200

615 NI Surubelnita Phillips PH 1x80

615 NI Surubelnita Phillips PH 2x100

406/4P Cleste combinat 160 mm

466/4P Cleste cu tais lateral pentru conditii grele 180 mm

530/4 Cleste pentru cuie 180 mm

441/4P Cleste reglabil 240 mm

565R/7P Foarfeca universala de taiat tabla 250 mm

660/6 Dalta lata 150 mm

670/6 Dalta ascutita 150 mm

642/6 Punctator Φ 4 mm

640/6 Dorn Φ 3

777/6C Razuitor cu trei muchii 150 mm

812 Ciocan lacatuserie 200 g

812 Ciocan lacatuserie 500 g

820A Ciocan masa plastica Φ 32 mm

760B Pila dreptunghiulara bastard 200

763B Pila rotunda bastard 200 mm

764B Pila triunghiulara bastard 200

556 A Cutter 160 mm

710 R Ruleta 5 m

911/5 Cutie de scule cu 5 compartimente 450x215x240 mm

TSE3

Trusa profesionala de scule pentru electricieni in cutie ABS



UNIOR

617449	54	20000	1	1988,92

126/2 PB Set chei combinate 6-19/8 piese (6, 8, 10, 12, 13, 14, 17, 19)

220SL Set chei imbus lungi cu bila 1,5-10/9 piese (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

385VDE Cutter izolat la 1000 V 180 mm

406/4G Cleste combinat 180 mm

441/4P Cleste reglabil 240 mm

461/4G Cleste cu tais lateral 160 mm

472/1BI Cleste cu varfuri late 160 mm

476/1BI Cleste cu varfuri rotunde 160 mm

478/4G Cleste de dezizolat 160 mm

508/4G Cleste cu varfuri semirotunde si tais lateral 170 mm

512/1BI Cleste cu varfuri semirotunde indoite si tais lateral 200 mm

532PLUS/1DP Cleste inele siguranta ext. varfuri drepte 180 mm (19-60 mm)

536PLUS/4DP Cleste inele siguranta int. varfuri drepte 180 mm (19-60 mm)

556 A Cutter 160 mm

569R/7P Foarfeca de tabla tip BERLIN 250 mm

580/1BI Foarfeca pentru cabluri 230 mm

600CR Surubelnita lata 1,2x6,5x125 mm

602CR Surubelnita lata 0,5x3,0x100 mm

602CR Surubelnita lata 1,0x5,5x150 mm

603VDE Surubelnita lata 0,6x3,5x100 mm

603VDE Surubelnita lata 1,2x6,5x150 mm

615CR Surubelnita Phillips PH 1x80 mm

615CR Surubelnita Phillips PH 2x100 mm

621CR Surubelnita TORX TX 25

621CR Surubelnita TORX TX 27

623VDE Surubelnita Pozidriv PZ 1x80

623VDE Surubelnita Pozidriv PZ 2x100

625CR Surubelnita Pozidriv PZ 3x150

629CR Surubelnita tubulara 4 mm

629CR Surubelnita tubulara 5 mm

629CR Surubelnita tubulara 6 mm

629CR Surubelnita tubulara 7 mm

629CR Surubelnita tubulara 8 mm

629CR Surubelnita tubulara 10 mm

630VDE Tester tensiune 220-250V

660/6A Dalta lata 125 mm

761H1/2S Pila semirotunda 250 mm

763H1/2S Pila rotunda 250 mm

812A Ciocan lacatus 300 g

970U1 Geanta ABS pentru scule 400x310x160 mm

1000 ak5

Trusa profesionala de scule pentru electricieni in geanta



UNIOR

612674	40	20000	1	3020,30

120/1 Cheie combinata lunga 10 mm

120/1 Cheie combinata lunga 13 mm

120/1 Cheie combinata lunga 17 mm

380 Cleste pentru dezizolat cablu 0,2-6 mm²

385H Dispozitiv de dezizolat cu carlig de taiere 4-28 mm²

420/1VDEBI Cleste combinat cu gaura 180 mm

425/4AB Cleste de sertizat 240 mm

447/1VDEBI Cleste reglabil izolat la 1000V 240 mm

461/1VDEBI Cleste tais lateral izolat 160 mm

472/1VDEBI Cleste cu varfuri late 160 mm

476/1VDEBI Cleste cu varfuri rotunde 160 mm

478/1VDEBI Cleste de dezizolat 160 mm

506/1VDEBI Cleste varfuri semirotunde si tais lateral 160 mm

508/1VDEBI Cleste varfuri semirotunde si tais lateral 170 mm

512/1VDEBI Cleste varfuri semirotunde indoite si tais lateral 170 mm

580/1VDEBI Foarfeca de cabluri 170 mm

582/3P Foarfeca pentru electricieni 150 mm

583/6 Foarfeca pentru PVC 195 mm

603VDETBI Surubelnita lata izolata la 1000 V 0,8x4,0x100 mm

603VDE Surubelnita lata izolata la 1000 V 0,4x2,5x75 mm

603VDETBI Surubelnita lata izolata la 1000 V 0,5x3,0x100 mm

603VDETBI Surubelnita lata izolata la 1000 V 1,0x5x5x125 mm

603VDETBI Surubelnita lata izolata la 1000 V 1,2x6,5x150 mm

603VDETBI Surubelnita lata izolata la 1000 V 1,2x8,0x175 mm

613VDETBI Surubelnita Phillips izolata la 1000 V PH 0x60 mm

613VDETBI Surubelnita Phillips izolata la 1000 V PH 1x80 mm

613VDETBI Surubelnita Phillips izolata la 1000 V PH 2x100 mm

613VDETBI Surubelnita Phillips izolata la 1000 V PH 3x150 mm

623VDETBI Surubelnita Pozidrive izolata la 1000 V PZ 1x80 mm

623VDETBI Surubelnita Pozidrive izolata la 1000 V PZ 2x100 mm

629TBI Surubelnita cu cap tubular maner trimaterial 6 mm

629TBI Surubelnita cu cap tubular maner trimaterial 8 mm

629TBI Surubelnita cu cap tubular maner trimaterial 10 mm

629TBI Surubelnita cu cap tubular maner trimaterial 13 mm

630VDE Tester tensiune 220-250V

665/6A Dalta lata pentru electricieni 10x250 mm

665/6A Dalta lata pentru electricieni 8x250 mm

710P Ruleta 3 m

710P Ruleta 5 m

812 Ciocan lacatus 500 g

909 Geanta pentru electricieni 420x320x140 mm

1000 ak7

Trusa profesionala de scule pentru electricieni in geanta



UNIOR

612780	19	20000	1´	1389,81

110/2VDEDP Cheie fixa 10 mm

110/2VDEDP Cheie fixa 13 mm

110/2VDEDP Cheie fixa 17 mm

406/1VDEBI Cleste combinat izolat la 1000 V 180 mm

425/4AB Cleste de sertizat 240 mm

447/1VDEBI Cleste reglabil izolat la 1000V 240 mm

461/1VDEBI Cleste tais lateral izolat 145 mm

476/1VDEBI Cleste cu varfuri rotunde 140 mm

478/1VDEBI Cleste de dezizolat 160 mm

506/1VDEBI Cleste varfuri semirotunde si tais lateral 140 mm

603VDETBI Surubelnita lata izolata la 1000 V 0,6x3,5x100 mm

603VDETBI Surubelnita lata izolata la 1000 V 1,0x5x5x125 mm

603VDETBI Surubelnita lata izolata la 1000 V 1,2x6,5x150 mm

613VDETBI Surubelnita Phillips izolata la 1000 V PH 0x60 mm

613VDETBI Surubelnita Phillips izolata la 1000 V PH 1x80 mm

613VDETBI Surubelnita Phillips izolata la 1000 V PH 2x100 mm

630VDE Tester tensiune 220-250V

665/6A Dalta lata pentru electricieni 8x250 mm

812 Ciocan lacatus 300 g

909/1 Geanta pentru electricieni 350x300x110 mm



ECHIPAMENT ATELIER

Calitatea tablei de otel

Carucioarele, bancurile, dulapurile si alte echipamente de stocare la fel ca si accesoriile acestora sunt confectionate din tabla de inalta calitate. Vopsirea in camp electrostatic le confera rezistenta la coroziune si julituri, acestea fiind practic indestructibile.

Designul inovator

O cunoastere aprofundata a tuturor cerintelor utilizatorilor profesionisti a dus la crearea unui echipament pentru ateliere capabil sa ofere mare accesibilitate, stocare perfecta si imbunatatirea vizualizarii in orice moment a produselor stocate.

Stocare perfecta

Prin modul de stocare si accesibilitatea usoara, echipamentul de stocare Unior va ajuta sa va tineti atelierul in perfecta ordine si mai ales va permite o crestere a productivitatii muncii.

1. Capacul, baza, stalpul stanga, stalpul dreapta si de perete sunt stantate pornind de la o rola de tabla si stantate pe CNC, apoi indoite pe o alta masina CNC.

2. Consola pentru roata este prima data taiata cu o foarfeca, indoita pe stanta (in doua etape), perforata si filetata pentru montarea rotii.

3. Manerul este stantat pornind de la o rola de tabla pe o masina de stantat CNC, apoi transferat pe o masina de indoit CNC si nituit pe stalpul in partea stanga.

PRODUCTIA SERTARELOR

Apoi, toate elementele sunt incarcate intr-o celula robotizata pentru sudare si intreg ansamblul este in intregime sudat inainte de a fi transportat pentru vopsire.

4. Sertarul 70 este stantat pe o masina CNC apoi indoit de doua ori pe un alt CNC, presat pe un alt post si pozitionat pe un post de sudare automat. Sudarea terminata, sertarul este gata pentru operatia de vopsire.

5. Sertarul 160 este stantat pe o masina CNC pornind de la o rola de tabla apoi indoit pe un alt CNC, prersat pe un alt post si pozitionat pe un post de sudare automat. Sudarea terminata, sertarul este gata pentru operatia de vopsire.

6. Tija de ridicare este taiata cu laser, folosind o masina de debitat cu LASER, presata pe un alt post, transferata pe o masina de indoit CNC si apoi transportata pentru acoperirea de suprafata.

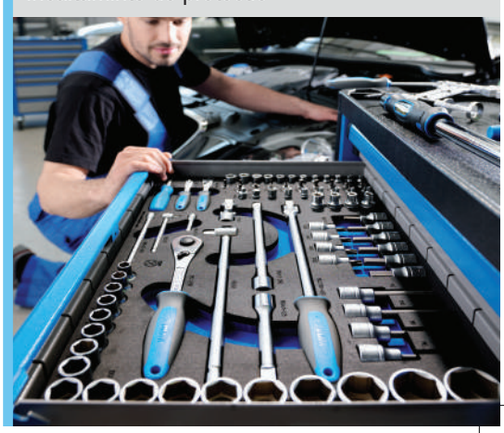
Dupa acoperire, toate elementele sunt pregatite pentru asamblare a CART, care se realizeaza pe linia de asamblare.

Asamblarea include urmatoarele operatii:

• Serigrafierea sertarelor
• Asamblarea sertarelor (tija de ridicare si ghidajele sunt nituite pe sertar si se introduce o captuseala sintetica)
• Serigrafierea carcasei
• Montarea captuselii sintetice in sertare si deasupra dulapului
• Ansamblarea incuietorii si mecanismului de inchidere
• Nituirea ghidajelor in carcasa
• Introducerea sertarelor
• Examinare de control si introducerea rotilor si manerului in sertar.
• Ambalarea in folie de protectie din polistiren utilizand un post de ambalare automatizat.

7. Impachetarea finala a produselor

Linie de carucioare - Europlus	786
Linia de carucioare Eurovision	788
Linie de carucioare Eurostyle	790
Linie de carucioare Euromaster si Economic	792
Linie de carucioare Hercules	792
Accesorii pentru carucioare	793
Bancuri de lucru	795
Bancuri de lucru modulare	796
Dulap de scule-3 compartimente	807
Dulap de scule-5 compartimente	807
Cutie de scule - Eurovision	808
Cutie de scule - Eurostyle	808
Dulap de scule	809
Suporturi pentru scule	810
Vestiare	813
Cutii de scule	814
Centuri portscule	818
Cutii de plastic	819
Display-uri si accesorii	830
Imbracaminte de protectie, Incaltaminte de protectie	842



Caracteristicile caruciorului de scule EuroPLUS

Material de inalta calitate

- tabla perforata
- sertare pe rulmenti
- covorase sintetice pentru protejarea sertarelor si a sculelor
- sistem de inchidere
- mecanism protector pentru inchiderea sertarelor
- etajera multifunctionala
- colturi antisoc din cauciuc
- vopsite cu vopsele ecologice fara cadmiu si plumb
- roti de 125 mm pentru manevrabilitate si stabilitate

Dimensiuni:

Carucior: 810x510x945 mm
Sertar mare: 565x385x150 mm
Sertar mic: 565x365x70 mm

Capacitate:

Sertar: 50 kg
Capacitate de incarcare statica: 2000 Kg

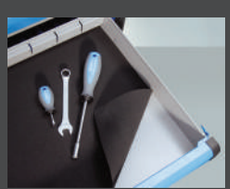




Noile glisiere cu rulmenti cu bile de 400mm sunt de o calitate mai buna decat la modelele standard. Aceasta permite cresterea sarcinii utile cu 10%, in timp ce sertarul continua sa alunece fara sincope si practic fara zgomot. Glisierele sunt concepute astfel incat sertarele pot inlaturate usor, printr-o simpla apasare pe butoanele de deblocare din plastic



Mecanismul de inchidere al sertarelor asigura deschiderea nedorita a acestora



Acoperirea speciala anti-derapaj protejeaza sertarul contra eventualelor stricaciuni, oprind sculele sa alunece in timpul deschiderii si inchiderii sertarului



Roti rezistente cu diametrul de 125mm cu o frana de siguranta permit mobilitatea si stabilitatea, chiar daca ruleaza complet incarcate peste un cablu.

Accesorii



SUPORT PENTRU HARTIE
Suportul pentru hartie, disponibil in doua versiuni, asigura ca hartia sa e totdeauna la indemana (920ES4A, 619445)



SEPARATOARE
Sertarele caruciorului EuroPLUS pot impartite la dorinta in parti de dimensiuni diferite instaland partitii (920 ES3, 617823)



PERETE DE AGATARE SCULE
Caruciorul EuroPLUS poate echipat cu un perete din tabla perforata, suport pentru scule si alte accesorii (920.1, 619711)



MODULE PENTRU SCULE
Modulele SOS din spuma poliuretanica permit aranjarea si protectia sculelor
SOS = Siguranta
Organizare
Supraveghere

920PLUS1

Carucior de scule EUROPLUS

- *sistem de inchidere*
- *noul mecanism de protectie al inchiderii pentru sertare*
- *raft multi - functional*
- *noile roti diam. 125 mm pentru imbunatatirea mobilitatii si stabilitatii*
- *cauciuc anti - soc*
- *tabla cu gauri perforate*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *8 sertare(sapte de dimensiuni 585x405x75mm, unul de dimensiuni 585x405x155mm)*
- *capacitatea statica de incarcare a caruciorului fara roti: 2000 kg*
- *capacitate sertare mici: 28 kg*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



	A	B	H				
617100	810	510	945	72200	1K	1	**5466,87**

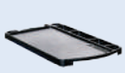
920PLUS2

Carucior de scule EUROPLUS

- *sistem de inchidere*
- *noul mecanism de protectie al inchiderii pentru sertare*
- *raft multi - functional*
- *noile roti diam. 125 mm pentru imbunatatirea mobilitatii si stabilitatii*
- *cauciuc anti - soc*
- *tabla cu gauri perforate*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *7 sertare (cinci de dimensiunea de 585x405x75mm, doua de dimensiunea 585x405x155mm)*
- *capacitatea statica de incarcare a caruciorului fara roti: 2000 kg*
- *capacitate sertare mici: 28 kg*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



	A	B	H				
617101	810	510	945	75600	1K	1	**5180,06**

		№	Europlus	
	**619711**	920.1PLUS	x	**562,92**
	Perete de agatare scule pentru 920PLUS			
	**617823**	920ES3	x	**61,24**
	Set despartitoare-4 piese			
	**619446**	920ES4A	x	**41,49**
	Suport de hartie - pentru rola mare la 920 PLUS			
	**621019**	920ES7	x	**96,17**
	Suport sticle pentru carucior 920PLUS			
	**619525**	920ES8	x	**133,77**
	Suport de ABS pentru 920PLUS			
	**621896**	964ASOS	x	**30,55**
	Suport gol SOS pentru 920PLUS, 940E si 940EV			
	**621897**	964BSOS	x	**93,93**
	Suport gol SOS pentru 920PLUS, 940E si 940EV			

940EV1

Carucior de scule Eurovision

- *sistem de inchidere*
- *noile roti diam. 125 mm pentru imbunatatirea mobilitatii si stabilitatii*
- *deschiderea si inchiderea sertarelor este foarte simpla datorita solutiei noi - manerul sertarului in pozitia de sus asigura o deblocare usoara si deschiderea sertarului.*
- *sertare pe rulmenti*
- *covoras sintetic antistatic pentru sertare protejeaza sertarul si sculele din interior*
- *mecanismul de inchidere al sertarelor asigura deschiderea nedorita a acestora*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *suruburi pentru fixarea accesoriilor sunt montate pe carucior*
- *ridicarea usii cu sistem de inchidere*
- *capacitatea statica a caruciorului:1600 kg*
- *capacitate statica sertare 40 kg*
- *4 sertare(3 de dim.563x365x70mm, 1 sertar de dim. 563x410x150mm)*
- *tabla perforata*





UNIOR

	A	B	H				
619884	720	440	917	44800	1K	1	**2853,08**

940EV3

Carucior de scule Eurovision

- *sistem de inchidere*
- *noile roti diam. 125 mm pentru imbunatatirea mobilitatii si stabilitatii*
- *deschiderea si inchiderea sertarelor este foarte simpla datorita solutiei noi - manerul sertarului in pozitia de sus asigura o deblocare usoara si deschiderea sertarului.*
- *sertare pe rulmenti*
- *covoras sintetic antistatic pentru sertare protejeaza sertarul si sculele din interior*
- *mecanismul de inchidere al sertarelor asigura deschiderea nedorita a acestora*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *suruburi pentru fixarea accesoriilor sunt montate pe carucior*
- *capacitatea statica a caruciorului:1600 kg*
- *capacitate statica sertare 40 kg*
- *tabla perforata*
- *6 sertare (3 de dimensiunea 563x365x70mm, 3 de dimensiunea 563x410x150mm)*





UNIOR

	A	B	H				
621436	720	440	917	51000	1K	1	**3260,77**

940EV4

Carucior de scule Eurovision

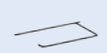
- *sistem de inchidere*
- *noile roti diam. 125 mm pentru imbunatatirea mobilitatii si stabilitatii*
- *deschiderea si inchiderea sertarelor este foarte simpla datorita solutiei noi - manerul sertarului in pozitia de sus asigura o deblocare usoara si deschiderea sertarului.*
- *sertare pe rulmenti*
- *covoras sintetic antistatic pentru sertare protejeaza sertarul si sculele din interior*
- *mecanismul de inchidere al sertarelor asigura deschiderea nedorita a acestora*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *suruburi pentru fixarea accesoriilor sunt montate pe carucior*
- *capacitatea statica a caruciorului:1600 kg*
- *capacitate statica sertare 40 kg*
- *7 sertare(5 de dim. 563x365x70mm,2 sertare de dim. 563x410x150mm)*
- *tabla perforata*





UNIOR

	A	B	H				
619885	720	440	917	57000	1K	1	**3430,40**

		№	Eurovision	
	**620417**	940.1EV	x	**283,75**
	Perete suplimentar pentru 940V			
	**620416**	940EVS1	x	**162,38**
	Cos metalic pentru 940EV			
	**620418**	940EVS4	x	**49,76**
	Suport de hartie pentru 940V			
	**620419**	940EVS7	x	**75,89**
	Suport pentru sticle pentru 940V			
	**608923**	940ES1	x	**184,71**
	Cos de tabla pentru 940E si 940EV			
	**608924**	940ES2	x	**138,35**
	Cos din tabla pentru 940E si 940EV			

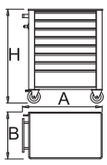
940EV6

Carucior de scule Eurovision

- *sistem de inchidere*
- *noile roti diam. 125 mm pentru imbunatatirea mobilitatii si stabilitatii*
- *deschiderea si inchiderea sertarelor este foarte simpla datorita solutiei noi - manerul sertarului in pozitia de sus asigura o deblocare usoara si deschiderea sertarului.*
- *sertare pe rulmenti*
- *covoras sintetic antistatic pentru sertare protejeaza sertarul si sculele din interior*
- *mecanismul de inchidere al sertarelor asigura deschiderea nedorita a acestora*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *suruburi pentru fixarea accesoriilor sunt montate pe carucior.*
- *capacitatea statica a caruciorului:1600 kg*
- *capacitate statica sertare 40 kg*
- *8 sertare(7 de dim. 563x365x70mm,1 sertar de dim. 563x410x150mm)*
- *tabla perforata*







UNIOR

	A	B	H				
619886	720	440	917	60000	1K	1	**3783,36**

940EV4BLOCK

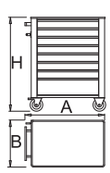
Carucior de scule Eurovision cu sitem blocare

- *NOUL sistem de siguranta Block, impiedica deschiderea a mai mult de un sertar o data. Cand un sertar este deschis, toate celelalte sertarele sunt blocate si nu pot fi deschise.*
- *noile roti diam. 125 mm pentru imbunatatirea mobilitatii si stabilitatii*
- *deschiderea si inchiderea sertarelor este foarte simpla datorita solutiei noi - manerul sertarului in pozitia de sus asigura o deblocare usoara si deschiderea sertarului.*
- *sertare pe rulmenti*
- *covoras sintetic antistatic pentru sertare protejeaza sertarul si sculele din interior*
- *mecanismul de inchidere al sertarelor asigura deschiderea nedorita a acestora*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *suruburi pentru fixarea accesoriilor sunt montate pe carucior.*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate statica sertare 40 kg*
- *7 sertare (5 de dim. 563x365x70 mm,2 sertare de dim. 563x410x150 mm)*
- *tabla perforata*

BLOCK safety system







UNIOR

	A	B	H				
625000	800	440	923	57000	1K	1	**4111,96**

		№	Eurovision	
	**608925**	940ES3	x	**44,85**
	Set de despartitoare - 4 piese pentru 940E si 940EV			
	**622597**	940ES3A	x	**94,37**
	Set de despartitoare pentru sertarul mic de la 940E si 940EV			
	**608969**	940ES5	x	**75,93**
	Suport de documente pentru 940E si 940EV			
	**608970**	940ES6	x	**78,66**
	suport pentru 940E si 940EV			
	**608971**	940ES7	x	**64,60**
	suport de sticle pentru 940E si 940EV			
	**608972**	940ES8	x	**115,58**
	Blat din ABS pentru 940E si 940EV			
	**608973**	940ES9	x	**321,30**
	Blat de lemn pentru 940E si 940EV			
	**622598**	940ES10	x	**45,97**
	Suport agatare surubelnite pentru 940E si 940EV			
	**621896**	964ASOS	x	**30,55**
	Suport gol SOS pentru 920PLUS, 940E si 940EV			
	**621897**	964BSOS	x	**93,93**
	Suport gol SOS pentru 920PLUS, 940E si 940EV			



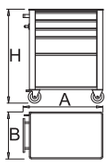
940E1

Carucior de scule "EUROSTYLE"

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *4 sertare(trei de dimensiune 560x365x70, unul 560x400x150mm)*
- *ridicarea usii cu sistem de inchidere*
- *capacitatea statica a caruciorului:1600 kg*
- *capacitate statica sertare 40 kg*
- *tabla perforata*







UNIOR

	A	B	H				
608542	720	440	895	42000	1K	1	**2717,21**

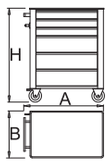
940E3

Carucior de scule "EUROSTYLE"

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *6 sertare(trei de dimensiuni 560x365x70mm, trei de dimensiuni 560x400x150mm)*
- *capacitatea statica a caruciorului:1600 kg*
- *capacitate statica sertare 40 kg*
- *tabla perforata*







UNIOR

	A	B	H				
608544	720	440	895	48000	1K	1	**3135,36**

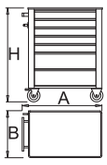
940E4

Carucior de scule "EUROSTYLE"

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *7 sertare(trei de dimensiuni 560x365x70mm, doua de dimensiuni 560x400x150mm)*
- *capacitatea statica a caruciorului:1600 kg*
- *capacitate statica sertare 40 kg*
- *tabla perforata*







UNIOR

	A	B	H				
608545	720	440	895	52000	1K	1	**3267,05**

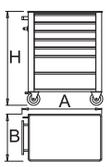
940E4/1L

Carucior de scule "EUROSTYLE"

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *7 sertare(trei de dimensiuni 560x365x70mm, doua de dimensiuni 560x400x150mm)*
- *capacitatea statica a caruciorului:1600 kg*
- *capacitate statica sertare 40 kg*
- *partea stanga si dreapta au tabla perforata*
- *include 10 carlige de 500mm*
- *partea superioara a caruciorului din ABS*
- *tabla perforata*







UNIOR

	A	B	H				
612138	720	440	895	60000	1K	1	**3365,07**

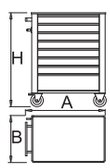
940E6

Carucior de scule "EUROSTYLE"

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *8 sertare (7 de dimensiunea 560x365x70mm, 1 de dimensiunea 560x400x150mm)*
- *capacitatea statica a caruciorului:1600 kg*
- *capacitate statica sertare 40 kg*
- *tabla perforata*







UNIOR

	A	B	H				
608547	720	440	895	56000	1K	1	**3648,42**



		№	Eurostyle	
	608923	940ES1	x	184,71
	Cos de tabla pentru 940E si 940EV			
	608924	940ES2	x	138,25
	Cos din tabla pentru 940E si 940EV			
	608925	940ES3	x	44,85
	Set de despartitoare - 4 piese pentru 940E si 940EV			
	622597	940ES3A	x	94,37
	Set de despartitoare pentru sertarul mic de la 940E si 940EV			
	608968	940ES4	x	17,22
	Suport de hartie pentru 940E			
	619445	940ES4A	x	24,71
	Suport hartie - rola mare pentru 940E			
	608969	940ES5	x	75,93
	Suport de documente pentru 940E si 940EV			
	608970	940ES6	x	78,66
	suport pentru 940E si 940EV			
	608971	940ES7	x	64,60
	suport de sticle pentru 940E si 940EV			
	608972	940ES8	x	115,58
	Blat din ABS pentru 940E si 940EV			
	622598	940ES10	x	45,97
	Suport agatare surubelnite pentru 940E si 940EV			
	620416	940EVS1	x	162,38
	Cos metalic pentru 940EV			
	620418	940EVS4	x	49,76
	Suport de hartie pentru 940V			
	620419	940EVS7	x	75,89
	Suport pentru sticle pentru 940V			
	621896	964ASOS	x	30,55
	Suport gol SOS pentru 920PLUS, 940E si 940EV			
	621897	964BSOS	x	93,93
	Suport gol SOS pentru 920PLUS, 940E si 940EV			

		№	Eurostyle	
	608925	940ES3	x	44,85
	Set de despartitoare - 4 piese pentru 940E si 940EV			
	622597	940ES3A	x	94,37
	Set de despartitoare pentru sertarul mic de la 940E si 940EV			
	621896	964ASOS	x	30,55
	Suport gol SOS pentru 920PLUS, 940E si 940EV			
	621897	964BSOS	x	93,93
	Suport gol SOS pentru 920PLUS, 940E si 940EV			

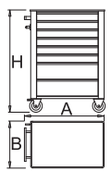
940E9

Carucior de scule

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *8 sertare(sase de dimensiuni 560x365x70 mm, doua de dimensiuni 560x400x150 mm)*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate statica sertare 40 kg*
- *tabla perforata*







UNIOR

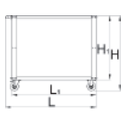
	A	B	H				
611757	720	500	975	72000	1K	1	**3933,97**

940T

Carucior cu roti pentru atelier

- *carucior de service ergonomic, greutate redusa si usor deplasat*
- *ideal pentru utilizarea in garaje, ateliere si depozite*
- *permite utilizatorului să transporte cu usurinta unelte si componente in zona de lucru ai ss le tina la indemana in timpul lucrului*
- *suprafata superioara rezistenta la apa permite accesul usor la scule si piese la o inaltime de lucru confortabila, in timp ce raftul inferior asigura o depozitare suplimentara*
- *rafturile sunt proiectate pentru o sarcina maxima de 100 kg fiecare si sunt protejate cu un covor anti-alunecare, rezistent la impact.*
- *4 roti - 2 fixe si 2 pivotante, 1 roata usor franata*
- *capacitate totala 200 kg*







UNIOR

	L	B	H				
627351	1072	600	887	29000	1K	1	**1715,42**

940H2BLOCK

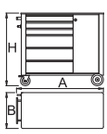
Carucior de scule "HERCULES"

- *NOUL sistem de siguranta Block, impiedica deschiderea a mai mult de un sertar o data. Cand un sertar este deschis, toate celelalte sertarele sunt blocate si nu pot fi deschise.*
- *4 roti, doua cu frana*
- *sertare pe rulmenti*
- *deschiderea si inchiderea sertarelor este foarte simpla datorita solutiei noi - manerul sertarului in pozitia de sus asigura o deblocare usoara si deschiderea sertarului.*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *7 sertare frontale dim. 560x365 mm (5 inalte de 70 mm si 2 inalte de 150 mm)*
- *usa cu incuietoare*
- *suprafata de lucru de lemn*
- *capacitatea statica a caruciorului: 2300 kg*
- *capacitatea sertarelor mari: 40 kg*
- *tabla cu gauri perforate*

BLOCK safety system







UNIOR

	A	B	H				
626800	1182	550	955	96200	1K	1	**6244,84**

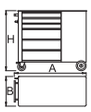
940H1

Carucior de scule "HERCULES"

- *sistem de inchidere(2 sisteme de inchidere)*
- *4 roti, doua cu frana*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *7 sertare frontale dim. 560x365 mm (5 inalte de 70 mm and 2 inalte de 150 mm)*
- *7 sertare laterale dim. 390x323 mm mm (5 inalte de 70 mm si 2 inalte de 150 mm)*
- *suprafata de lucru de lemn*
- *capacitatea statica a caruciorului:2300 kg*
- *capacitatea sertarelor mici: 25 kg*
- *capacitatea sertarelor mari: 40 kg*
- *tabla perforata*



1,25mm



UNIOR

	A	B	H				
615510	1080	550	955	115600	1K	1	**6225,00**

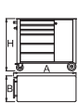
940H2

Carucior de scule "HERCULES"

- *sistem de inchidere*
- *4 roti, doua cu frana*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *7 sertare frontale dim. 560x365 mm (5 inalte de 70 mm and 2 inalte de 150 mm)*
- *usa cu incuietoare*
- *suprafata de lucru de lemn*
- *capacitatea statica a caruciorului: 2300 kg*
- *capacitatea sertarelor mari: 40 kg*
- *tabla perforata*



1,25mm



UNIOR

	A	B	H				
615511	1080	550	955	96200	1K	1	**5067,30**

	№		Herkules	Herkules	
	**621442**	**940.1H**	x		**490,78**
Polița verticala de scule pentru 940H					
	**621896**	**964ASOS**	x		**30,55**
Suport gol SOS pentru 920PLUS, 940E si 940EV					
	**621897**	**964BSOS**	x		**93,93**
Suport gol SOS pentru 920PLUS, 940E si 940EV					
	**608969**	**940ES5**	x		**75,93**
Suport de documente pentru 940E si 940EV					
	**608971**	**940ES7**	x		**64,60**
Suport de sticle pentru 940E si 940EV					
	**608923**	**940ES1**	x		**184,71**
Cos de tabla pentru 940E și 940EV					
	**608925**	**940ES3**	x		**44,85**
Set de despartitoare - 4 piese pentru 940E si 940EV					
	**608924**	**940ES2**	x		**138,35**
Cos din tabla pentru 940E si 940EV					
	**622597**	**940ES3A**			**94,37**
Set de despartitoare pentru sertarul mic de la 940E si 940EV					
	**610932**	**940HS3**			**43,05**
Set de despartitoare - 3 piese pentru 940H					
	**622882**	**940.2H2**			**213,75**
Usa pentru 940H2					



	№		Economic	
	**617269**	**940ECOS1**	x	**44,12**
3 buc despartitoare pentru 940ECO				
	**618460**	**940ECOES7**	x	**92,18**
Suport de sticla 940ECO				

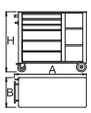
940H3

Carucior de scule "HERCULES"

- *sistem de inchidere*
- *4 roti, doua cu frana*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *7 sertare frontale dim. 560x365 mm (5 inalte de 70 mm and 2 inalte de 150 mm)*
- *o parte cu rafturi*
- *suprafata de lucru de lemn*
- *capacitatea statica a caruciorului: 2300 kg*
- *capacitatea sertarelor mari: 40 kg*
- *tabla perforata*



1,25mm



UNIOR

	A	B	H				
615512	1080	550	955	94200	1K	1	**4981,25**

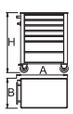
940ECO

Carucior de scule Economic

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *tabla perforata*
- *6 sertare(4 sertare de dim.490x275x70mm, 2 sertare de dim.490x310x150mm)*
- *capacitate statica sertare: 30 kg*



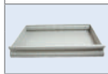
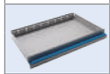
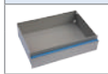
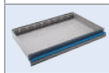
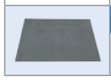
0,8mm



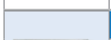
UNIOR

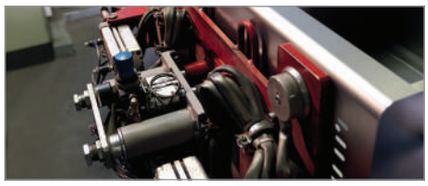
	A	B	H				
617227	700	355	890	33000	1K	1	**2246,91**

PIESE DE SCHIMB

	№			920PLUS	940E	940EV	940ECO	940M	940H	994	946	943P1, 943P2	948	949	938	938V	938M	939	939EV	
	613099	D11	585x612x75								x	x								247,36
	Sertar mic pentru 946A																			
	613098	D12	585x612x153								x	x								343,58
	Sertar mare 946A																			
	615998	D13	585x405x75					x	x											288,85
	Sertar mic 940H1, H2, H3, 940M1, M2																			
	615999	D14	585x405x153					x	x											317,31
	Sertar mare 940H1, H2, H3, 940M1, M2																			
	616000	D15	415x365x75						x											246,73
	Sertar mic, lateral 940H1																			
	616001	D16	415x365x153						x											262,10
	Sertar mare 940H1																			
	619521	D17	585x412x75	x																288,85
	Sertar mic 920																			
	619520	D18	585x412x155	x																329,52
	Sertar mare 920																			
	620564	D20	585x413x75			x														300,53
	Sertar mic EuroVision																			
	620563	D19	585x413x153			x														333,17
	Sertar mare EuroVision																			
	620247	D20ECO	520x313x75				x													283,02
	Sertar mic 940ECO																			
	620246	D19ECO	520x313x155				x													317,94
	Sertar mare 940ECO																			
	621663	D939EV1	585x323x75																x	288,85
	Sertar mic pentru cutie de scule Eurovision																			
	621664	D939EV2	585x323x153																x	317,31
	Sertar mare pentru cutie de scule Eurovision																			
	610165	K1	180°	x	x		x	x	x		x	x								48,94
	Cheie cu butuc 940E1-9, H1, H2, H3, M1, M2, M3, 940/2, 940/3, 946A																			
	610233	K1S	90° + 180°		x			x	x											97,83
	Set de doua chei cu butuc																			
	615004	K7	90°		x	x		x					x	x	x	x	x	x		48,94
	Cheie cu butuc 940E1-9, H1, H2, H3, M1, M2, M3, 940/2, 940/3, 946A																			
	619522	K8	180°	x																48,94
	Incuietoare cu cheie 920																			
	620562	K9	180°			x													x	60,95
	Cheie cu incuietoare Eurovision																			
	610174	R4	490x66x90						x											116,16
	Maner 940H1, H2, H3																			
	616002	R5	390x70x25					x												65,72
	Maner 940M1, M2, M3																			
	620565	R7	375x98x40			x														77,05
	Maner EuroVision																			
	610180	T5	560x380					x	x											33,32
	Material sintetic pentru sertare 940E1-9, H1, H2, H3, M1, M2, M3																			
	615247	T6	560x398					x	x											32,84
	Material sintetic pentru sertare 940E-9, H1, H2, H3, M1, M2, M3																			
	616003	T7	391x341						x											32,84
	Material sintetic pentru sertare																			

PIESE DE SCHIMB

	№			920PLUS	940E	940EV	940ECO	940M	940H	994	946	943P1, 943P2	948	949	938	938V	938M	939	939EV	
	**616004**	T8	391x359						x											**32,84**
	Material sintetic pentru sertare																			
	**616005**	T9	560x591								x									**45,43**
	Material sintetic pentru sertare 946A																			
	**616006**	T10	560x608								x									**50,93**
	Material sintetic pentru sertare 946A																			
	**616007**	T11	589x437					x												**37,60**
	Material sintetic pentru raft 940M1, M2, M3																			
	**620566**	T12	694x434			x														**57,11**
	Covor sintetic pentru EuroVision																			
	**620568**	T13	560x380			x														**38,28**
	Husa sinetica pentru sertarul mic de la EuroVision																			
	**620569**	T14	560x405			x														**39,99**
	Husa sintetica pentru sertarul mare de la EuroVision																			
	**620939**	T920	560x380	x		X														**40,67**
	Covor sintetic pentru sertarele mari si mici ale caruciorului Europlus																			
	**621665**	T939EV1	560x294																x	**32,84**
	Invelis pentru sertar mic din material sintetic pentru dulap de scule Eurovision																			
	**621666**	T939EV2	560x317																x	**33,32**
	Invelis pentru sertar mare din material sintetic pentru dulap de scule Eurovision 939EV																			
	**610181**	V1	400			x														**114,22**
	Glisiere pe rulmenti 940E1-9																			
	**610182**	V2	350						x											**110,03**
	Glisiere pe rulmenti pentru 940H1																			
	**603664**	V3	400	X				x	x											**122,20**
	Glisiere pe rulmenti pentru 940 H1, H2, H3, 940 M1, M2, M3																			
	613100	V4	600								x	x		x						**125,31**
	Glisiera pe rulmenti 946A																			
	**616008**	V5	700					x												**146,42**
	Glisiera pe rulmenti 940M1, M2, M3																			
	**619551**	V6	300				x												x	**48,79**
	Glisiera pe rulment pentru 940ECO																			
	**610183**	W1	100		x		x	x		x							x			**101,13**
	Roata pivotanta cu frana 940E1-9, 940M1, M2, M3, 938/5M																			
	**610184**	W2	100		x		x	x		x							x			**97,83**
	Roata pivotanta fara frana pentru 940E1 - E6, 940 M1, M2, M3, 938/5M																			
	**610185**	W3	100		x		x	x		x							x			**97,63**
	Roata fixa 940E1-6, 940M1, M2, M3, 938/5M																			
	**610189**	W7	160						x											**79,00**
	Roata fixa 940H1, H2, H3																			
	**610190**	W8	125						x											**123,90**
	Roata pivotanta cu frana																			
	**610191**	W20	100		x		x	x		x							x			**316,00**
	Set de roti 940E1-6, 940M1, M2, M3, 938/5M																			
	**610195**	W24	125+160						x											**339,74**
	Set de roti pentru 940H1, H2, H3																			
	**619524**	W26	125	x		x														**316,00**
	Set de roti pentru 920																			



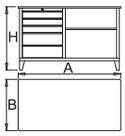
946A

Banc de lucru

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *suprafata de lucru de lemn*
- *5 sertare(3 dim. 560x570x70, 2 dim. 560 x605x150mm*
- *capacitate statica:2300 kg*
- *capacitate sertare:40 kg*
- *tabla perforata*







UNIOR

	A	B	H				
612328	1500	750	925	116000	1K	1	**6690,54**

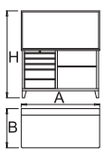
946AC

Banc de lucru cu panou

- *combinatie intre bancul de lucru (art.946A) si panoul (art.946C) (Art 946 ACR cu jaluzea)*







UNIOR

	A	B	H				
612220	1500	750	1665	136000	1K	1	**8169,10**

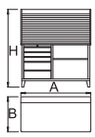
946ACR

Banc de lucru cu panou si jaluzea orizontala

- *combinatie intre bancul de lucru (art.946A) si panoul (art.946C) si jaluzea (art 946 CR)*







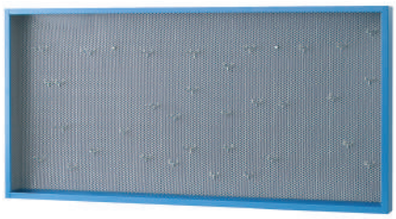
UNIOR

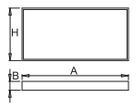
	A	B	H				
612331	1500	750	1665	146000	1K	1	**10144,28**

946C

Panou pentru banc de lucru pentru 946A

- *tabla perforata*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu 30 de carlige*





UNIOR

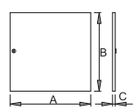
	A	B	H				
612329	1500	125	740	20000	1K	1	**1478,52**

946D

Usa pentru banc de lucru

- *material:tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





UNIOR

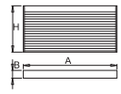
	A	C	B				
613097	665	20	565	3650	1K	1	**281,61**

946CR

Panou si jaluzea orizontala pentru 946A

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu 30 de carlige*
- *model CR cu jaluzea si sistem de inchidere*
- *tabla perforata*





UNIOR

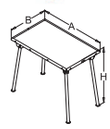
	A	B	H				
612330	1500	125	740	30000	1K	1	**3453,75**

946G

Masa de lucru

- *picioare rabatabile*
- *capacitatea de incarcare statica : 250 kg*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *placaj stratificat*
- *protejate prin lacuire ecologica*





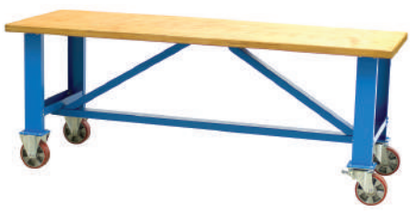
UNIOR

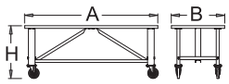
	A	B	H				
621573	1000	600	850	21800	1K	1	**869,04**

946T

Banc de lucru mobil

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *placaj stratificat*
- *protejate prin lacuire ecologica*
- *capacitate dinamica de incarcare: 1000 kg*
- *roti cu diametrul 200mm*





UNIOR

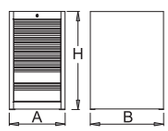
	A	B	H				
621448	2050	750	800	90000	1K	1	**3896,12**

990ND6

Dulap ingust pentru scule - 6 sertare

- *sistem de inchidere*
- *sertare cu glisiere pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *6 sertare (4 cu dimensiuni 374x570x70 mm, 1 cu dimensiunea 374x605x150 mm si 1 cu dimensiunea 374x605x230 mm)*
- *posibilitatea de utilizare a modulelor SOS in sertare*
- *capacitatea maxima de incarcare pe sertar: 50 kg*
- *material: tabla*





UNIOR

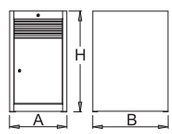
	A	B	H		
625622	475	650	650	60200	3081,35

990NDD2

Dulap ingust pentru scule - 2 sertare si usa

- *sistem de inchidere*
- *sertare cu glisiere pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *2 sertare cu dimensiuni 374x570x70mm*
- *cu usa*
- *posibilitatea de utilizare a modulelor SOS in sertare*
- *capacitatea maxima de incarcare pe sertar: 50 kg*
- *material: tabla*





UNIOR

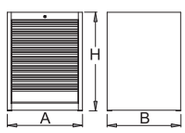
	A	B	H		
625624	475	650	870	40000	2280,19

990WD8

Dulap lat pentru scule - 8 sertare

- *sistem de inchidere*
- *sertare cu glisiere pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *8 sertare (7 cu dimensiuni 564x570x70 mm, 1 cu dimensiunea 564x605x150 mm)*
- *posibilitatea de utilizare a modulelor SOS in sertare*
- *capacitatea maxima de incarcare pe sertar: 50 kg*
- *material: tabla*





UNIOR

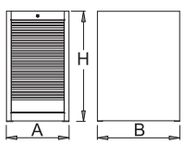
	A	B	H		
625621	663	650	870	83800	3840,75

990ND8

Dulap ingust pentru scule - 8 sertare

- *sistem de inchidere*
- *sertare cu glisiere pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *8 sertare (7 cu dimensiuni 374x570x70 mm, 1 cu dimensiunea 374x605x150 mm)*
- *posibilitatea de utilizare a modulelor SOS in sertare*
- *capacitatea maxima de incarcare pe sertar: 50 kg*
- *material: tabla*





UNIOR

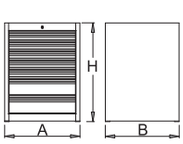
	A	B	H		
625623	475	650	870	68000	3392,94

990WD6

Dulap lat pentru scule - 6 sertare

- *sistem de inchidere*
- *sertare cu glisiere pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *6 sertare (4 cu dimensiuni 564x570x70 mm, 1 cu dimensiunea 564x605x150 mm si 1 cu dimensiunea 564x605x230 mm)*
- *posibilitatea de utilizare a modulelor SOS in sertare*
- *capacitatea maxima de incarcare pe sertar: 50 kg*
- *material: tabla*





UNIOR

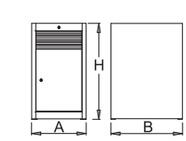
	A	B	H		
625620	663	650	870	72800	3474,61

990WDD2

Dulap lat pentru scule - 2 sertare si usa

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *2 sertare (2 x L 564 x W 570 x H 70 mm)*
- *cu usa*
- *dimensiuni L 663 x W 650 x H 870 mm*
- *volum total sertare: 45 litri*
- *posibilitatea de utilizare a modulelor SOS in sertare*
- *capacitate maxima pe fiecare sertar: 50kg*
- *tabla cu gauri perforate*





UNIOR

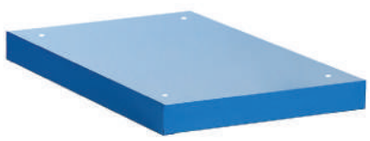
	A	B	H		
625625	663	650	870	51000	2549,56

990NDU

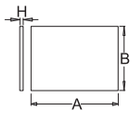
Baza inferioara pentru dulap ingust

- *material: tabla*

7







UNIOR

		A	B	H		
625643	60	442	640	78	6400	**313,44**
625743	90	442	640	108	7200	**379,08**
625644	120	442	640	138	8000	**390,02**
627053	30	442	640	48	5000	**286,01**

990WDU

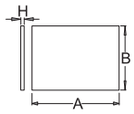
Baza inferioara pentru dulap lat

- *material: tabla*

8







UNIOR

		A	B	H		
625641	60	630	640	78	8200	**398,34**
625742	90	630	640	108	9200	**411,90**
625642	120	630	640	138	10000	**427,78**
627052	30	630	640	48	6700	**367,52**

DULAPURI INGUSTE DE SCULE A

DULAPURI LATE DE SCULE B

BAZE PENTRU DULAPURI, DESPARTITOARE C

BLATURI SI PICIOARE D

PANOURI PERFORATE SI ACCESORII E

MODULE UNIOR F

990NDH

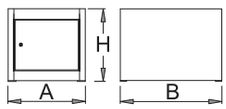
Dulap scule cu montare sub blat

- *sistem de inchidere*
- *sertare cu glisiere pe rulmenti• vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu usa*
- *material: tabla*

9







UNIOR

	A	B	H		
625627	475	650	430	9000	**1273,62**

990NDH

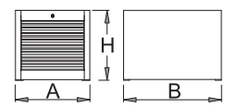
Dulap scule ingust cu montare sub blat - 4 sertare

- *sistem de inchidere*
- *sertare cu glisiere pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *4 sertare de dimensiuni 374x570x70 mm*
- *posibilitatea de utilizare a modulelor SOS in sertare*
- *capacitatea maxima de incarcare pe sertar: 50 kg*
- *material: tabla*

9







UNIOR

	A	B	H		
625626	475	650	430	32000	**2096,20**

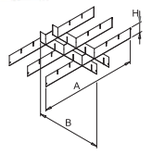
990NDP

Separatoare pentru sertare inguste

- *material: tabla*

11





UNIOR

	A	B	H		
625640	370	583	60	-	**86,45**

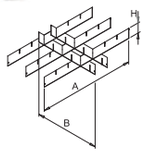
990WDP

Separatoare pentru sertare late

- *material: tabla*

12





UNIOR

	A	B	H		
625639	558	583	60	1362	**91,07**

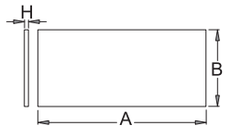
990TW

Blat din lemn

- *placaj stratificat*
- *protejate prin lacuire ecologica*

13





UNIOR

	A	B	H		
625630	1500	750	40	36200	**1035,85**
625631	2000	750	40	46200	**1447,14**
625632	2500	750	40	61000	**1757,18**

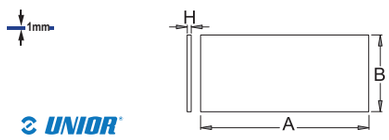
990TWS

Invelitoare din otel inoxidabil

- *material: otel inoxidabil*
- *se utilizeaza numai cu blatul din placaj stratificat 990TW*
- *grosime material: 1 mm*

14





UNIOR

	A	B	H		
625633	1503	753	41	11000	**888,56**
625634	2003	753	41	13000	**1139,67**
625635	2503	753	41	16000	**2124,81**

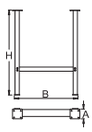
990L

Picior pentru banc modular

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *material: tabla*

15





UNIOR

	A	B	H		
625628	105	650	870	10600	**439,03**

990LA

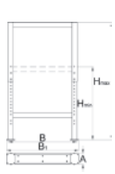
Picior reglabil pentru banc modular

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *material: tabla*

16







UNIOR

	A	B	B1	H↓	H↑		
625629	100	650	680	690	1110	12000	**570,78**

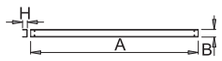
990C

Traversa de legatura pentru bancuri modulare

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *material: tabla*

17





UNIOR

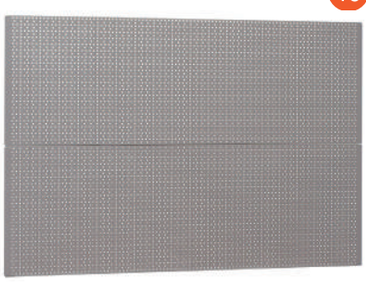
		A	B	H		
625636	1500	1425	80	40	3400	**206,34**
625637	2000	1925	80	40	4800	**229,30**
625638	2500	2425	80	40	6000	**265,20**

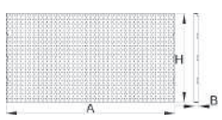
990NDH

Perete perforat, 2 bucati in set

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *material: tabla*

18





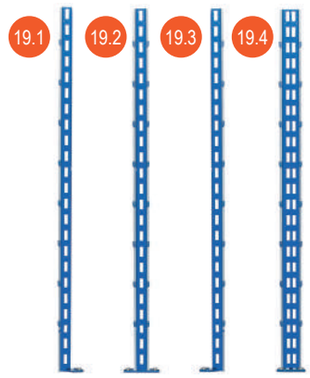
UNIOR

	A	B	H		
625652	982	28	1018	12600	**533,95**
625653	1202	28	1018	16400	**633,65**
625654	1436	28	1018	19800	**777,43**

990SL / 990SM / 990SR / 990SC

Suport tabla perforata pentru bancuri modulare

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *material: tabla*



UNIOR

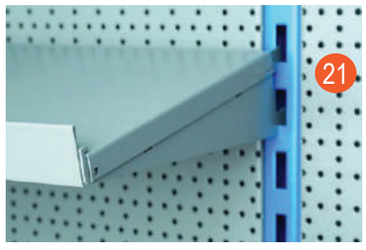
	Art.	H	Pozitionare	Nr.	
625648	990SL	1155	stanga	19.1	**181,07**
625650	990SM	1155	centru	19.2	**170,37**
625649	990SR	1155	dreapta	19.3	**181,07**
625651	990SC	1155	traversa	19.4	**256,11**

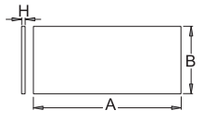
990SHELF

Raft cu suporturi

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *material: tabla*

21





UNIOR

		A	B	H		
625672	1000	984	250	40	3200	**228,68**
625673	1250	1234	250	40	5400	**299,21**
625674	1500	1468	250	40	6400	**399,42**

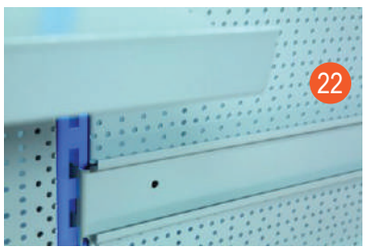
Bancul modular este o piesa indispensabila a echipamentului atat profesional cat si pentru utilizatorii casnici. Este utilizat ca suprafata de lucru cat si ca spatiu de depozitare in siguranta a sculelor, precum si pentru lucrari mecanice diverse ce pot fi executate pe acesta. Este compus din diverse module care permit variante multiple de bancuri de lucru, dand posibilitatea fiecarui utilizator sa-si creeze un spatiu ideal de munca cu posibilitati multiple functionale. Montarea acestuia este rapida, simpla si sigura.
Un sablon este livrat odata cu acesta pentru a permite gaurirea exacta pentru montare.
Componentele bancului modular sunt executate din tabla de otel de 3 mm grosime.



990HPB

Suport pentru module de plastic

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *material: tabla*





	A	B	H		
625660	1000	40,5	98	2400	**144,24**
625661	1250	40,5	98	3000	**154,56**
625662	1500	40,5	98	3600	**196,32**

990HPC

Suport din plastic cu prize

- *material: plastic*





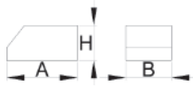
		A	B	H		
625656	2	998	130	55	4326	**797,61**
625657	2	1248	130	55	5465	**925,67**
625658	4	1498	130	55	6620	**1160,36**

PB.990HPB

Module plastic

- *material: polipropilena*
- *se livreaza in set de 3 bucati*





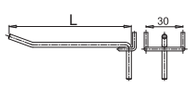
	A	B	H		
625748	160	100	75	200	**29,43**
625749	235	155	125	580	**67,96**
625750	350	210	150	1180	**113,72**

997.1

Carlig

- *pentru expunere pe dulap, panou de expozitor si bancuri de lucru*
- *este posibila fixarea carligelor intr-o pozitie ceruta*
- *cromate*





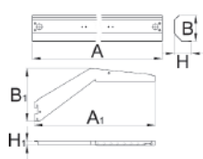
	L	D	Buc.		
609478	35	4	10	20	**2,82**
609479	50	4	10	21	**2,92**
609480	80	4	10	25	**3,06**
609447	100	4	10	26	**3,21**
610559	150	5	10	30	**4,57**
610560	200	5	10	37	**5,21**

990HL

Suport cu consola pentru iluminator

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *material: tabla*





	A	B	H	A1	B1	H1		
625663	999	121	36,5	450	200	17	2151	**261,97**
625664	1249	121	36,5	450	200	17	2469	**280,30**
625665	1499	121	36,5	450	200	17	2760	**299,10**

990LIGHT

Dispozitiv iluminat cu neon

- *dimensiuni: 600/800/1200 mm*
- *lumina: alb rece 4000 K*
- *durata de viata: 25000 h*
- *fara emisii UV*
- *putere: 10 W / 15 W / 20 W*
- *tensiunea de alimentare: 220-240 V*
- *numar de LED-uri: LED SMD 52/76/100*
- *flux luminos: 1000/1400/1900 lm*
- *temperatura de cromatografie: 4000 K*
- *cu doi conectori si cablu de alimentare*





		A	B	H	lm		
625666	600	600	23	37	1000	167	**La cerere**
625667	900	860	23	37	1400	297	**255,50**
625671	1200	1150	23	37	1900	315	**311,74**



990MA1

Banc de lucru modular - Modul 1



Art.		Denumire	Buc.	Nr.	
625751	1155x2000x750 mm	990MA1			**12909,28**
625652	990B	1000 Perete perforat, 2 bucati in set	2	18	
625663	990HL	1000 Suport cu consola pentru luminator	2	26	
625660	990HPB	1000 Suport pentru module din plastic	1	22	
625656	990HPC	1000 Suport cu canal pentru	2	24	
625667	990LIGHT	900 Dispozitiv de iluminare cu neon	2	28	
625622	990ND6	Dulap scule ingust - 6 sertare	1	1	
625672	990SHELF	1000 Raft cu suporturi	1	21	
625648	990SL	Suport stanga	1	19.1	
625650	990SM	Suport central	1	19.2	
625649	990SR	Suport dreapta	1	19.3	
625631	990TW	2000 Blat din lemn	1	13	
625620	990WD6	Dulap scule lat - 6 sertare	1	4	
609479	997.1	50 Carlig	20	23	
625749	PB.990HPB	155x235x125 Module plastic, 3 bucati in set	2	25	

990MB2

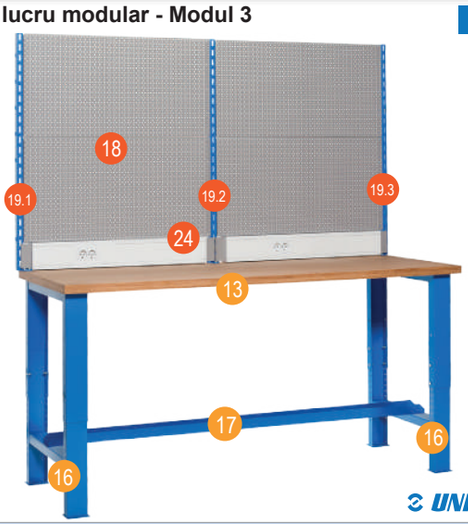
Banc de lucru modular - Modul 2



Art.		Denumire	Buc.	Nr.	
625752	1155x2000x750 mm	990MB2			**21488,33**
617100	920PLUS1	Carucior de scule Europlus	1		
622671	949	695x660x2030 Dulap de scule	1		
625652	990B	1000 Perete perforat, 2 bucati in set	2	18	
625656	990HPC	1000 Suport din plastic cu prize	2	24	
625629	990LA	Picior reglabil pentru banc de lucru	1	16	
625648	990SL	Suport stanga	1	19.1	
625650	990SM	Suport central	1	19.2	
625649	990SR	Suport dreapta	1	19.3	
625631	990TW	2000 Blat din lemn	1	13	
625620	990WD6	Dulap scule lat - 6 sertare	1	4	
609479	997.1	50 Carlig	20	23	

990MA3

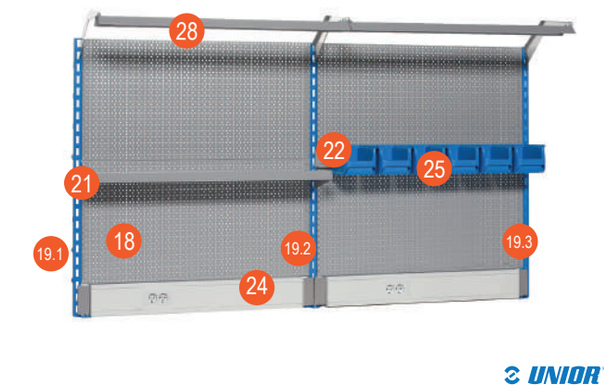
Banc de lucru modular - Modul 3



Art.		Denumire	Buc.	Nr.	
625753	1155x2000x750 mm	990MA3			**6,178,88**
625652	990B	1000 Perete perforat, 2 bucati in set	2	18	
625637	990C	2000 Traversa	1	17	
625656	990HPC	1000 Suport cu canal pentru prize	2	24	
625629	990LA	Picior reglabil pentru banc de lucru	2	16	
625648	990SL	Suport stanga	1	19.1	
625650	990SM	Suport central	1	19.2	
625649	990SR	Suport dreapta	1	19.3	
625631	990TW	2000 Blat din lemn	1	13	
609479	997.1	50 Carlig	20	23	

990MC4

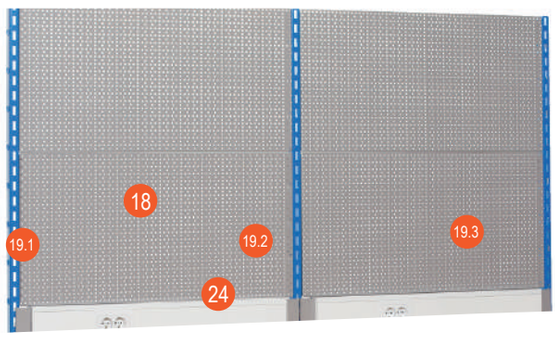
Banc de lucru modular - Modul 4



Art.		Denumire	Buc.	Nr.	
625754	1155x2000 mm	990MC4			**5051,04**
625652	990B	1000 Perete perforat, 2 bucati in set	2	18	
625663	990HL	1000 Suport cu consola pentru luminator	2	26	
625660	990HPB	1000 Suport module din plastic	1	22	
625656	990HPC	1000 Suport din plastic cu prize	2	24	
625667	990LIGHT	900 Dispozitiv de iluminare cu neon	2	16	
625672	990SHELF	1000 Raft cu suporturi	1	21	
625648	990SL	Suport stanga	1	19.1	
625650	990SM	Suport central	1	19.2	
625649	990SR	Suport dreapta	1	19.3	
609479	997.1	50 Carlig	20	23	
625749	PB.990HPB	155x235x125 Module plastic, 3 bucati in set	6	25	

990MC5

Banc de lucru modular - Modul 5



Art.		Denumire	Buc.	Nr.	
625755	1155x2000 mm	990MC5			**3455,18**
625652	990B	1000 Perete perforat, 2 bucati in set	2	18	
625656	990HPC	1000 Suport cu canal pentru prize	2	24	
625648	990SL	Suport stanga	1	19.1	
625650	990SM	Suport central	1	19.2	
625649	990SR	Suport dreapta	1	19.3	
609479	997.1	50 Carlig	20	23	

990MA7

Banc de lucru modular - Modul 7



Art.		Denumire	Buc.	Nr.	
625757	1110x1500x750 mm	990MA7			**5939,57**
625636	990C	1500 Traversa	1	17	
625629	990LA	Picior reglabil pentru banc de lucru	2	16	
625627	900NDH	Dulap cu montare sub blat	1	9	
625626	990NDH4	Dulap montare sub blat - 4 sertare	1	10	
625630	990TW	1500 Blat din lemn	1	13	

990MA6

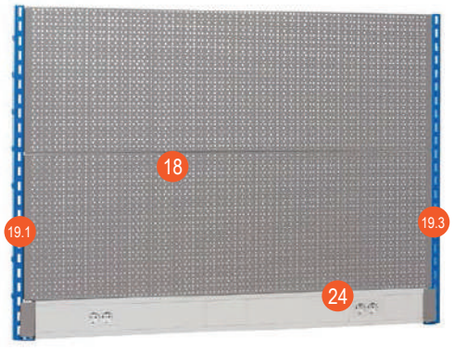
Banc de lucru modular - Modul 6



Art.		Denumire	Buc.	Nr.	
625756	1155x1500x750 mm	990MA6			**7227,06**
625654	990B	1500 Perete perforat, 2 bucati in set	1	18	
625658	990HPC	1500 Suport din plastic cu prize	1	24	
625629	990LA	Picior reglabil pentru banc de lucru	1	16	
625622	990ND6	Dulap scule ingust - 6 sertare	1	1	
625648	990SL	Suport stanga	1	19.1	
625649	990SR	Suport dreapta	1	19.3	
625630	990TW	1500 Blat din lemn	1	13	
609479	997.1	50 Carlig	20	23	

990MC8

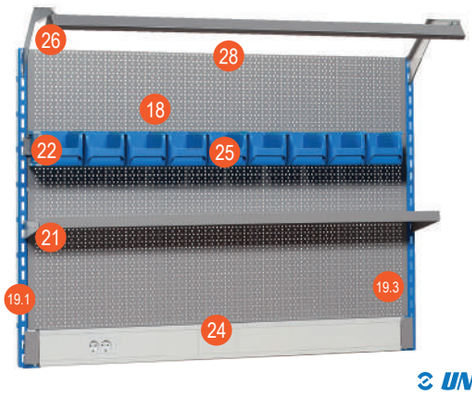
Banc de lucru modular - Modul 8



Art.		Denumire	Buc.	Nr.	
625758	1155x1500 mm	990MA7			**2352,93**
625652	990B	1000 Perete perforat, 2 bucati in set	1	18	
625658	990HPC	1000 Suport cu canal pentru prize	1	24	
625648	990SL	Suport stanga	1	19.1	
625649	990SR	Suport dreapta	1	19.3	
609479	997.1	50 Carlig	20	23	

990MC9

Banc de lucru modular - Modul 9



Art.		Denumire	Buc.	Nr.	
625759	1155x1500 mm	990MC9			**3805,00**
625652	990B 1500	Perete perforat, 2 bucati in set	1	18	
625663	990HL 1500	Suport cu consola pentru luminator	1	26	
625660	990HPB 1500	Suport pentru module din plastic	1	22	
625656	990HPC 1500	Suport cu canal pentru	1	24	
625667	990LIGHT 1200	Dispozitiv de iluminare cu neon	1	28	
625672	990SHELF 1500	Raft cu suporturi	1	21	
625648	990SL	Suport stanga	1	19.1	
625649	990SR	Suport dreapta	1	19.3	
609479	997.1 50	Carlig	20	23	
625749	PB.990HPB 155x235x125	Module plastic, 3 bucati in set	3	25	

990MA11

Banc de lucru modular - Modul 11



Art.		Denumire	Buc.	Nr.	
625761	1155x1500x750 mm	990MA11			**11582,96**
625654	990B 1500	Perete perforat, 2 bucati in set	2	18	
625665	990HL 1500	Suport cu consola pentru luminator	2	26	
625662	990HPB 1500	Suport pentru module din plastic	1	22	
625658	990HPC 1500	Suport cu canal pentru	2	24	
625671	990LIGHT 1200	Dispozitiv de iluminare cu neon	2	28	
625622	990ND6	Dulap scule ingust - 6 sertare	1	1	
625674	990SHELF 1500	Raft cu suporturi	1	21	
625648	990SL	Suport stanga	11	19.1	
625649	990SR	Suport dreapta	1	19.3	
625630	990TW 1500	Blat din lemn	1	13	
625620	990WD6	Dulap scule lat - 6 sertare	1	4	
609479	997.1 50	Carlig	20	23	
625749	PB.990HPB 155x235x125	Module plastic, 3 bucati in set	2	25	

990MA10

Banc de lucru modular - Modul 10



Art.		Denumire	Buc.	Nr.	
625760	1155x2500x750 mm	990MA10			**13272,49**
625653	990B 1500	Perete perforat, 2 bucati in set	2	18	
625664	990HL 1500	Suport cu consola pentru luminator	2	26	
625657	990HPC 1500	Suport cu canal pentru prize	2	24	
625667	990LIGHT 1200	Dispozitiv de iluminare cu neon	2	28	
625648	990SL	Suport stanga	1	19.1	
625650	990SM	Suport central	1	19.2	
625649	990SR	Suport dreapta	1	19.3	
625632	990TW 1500	Blat din lemn	1	13	
625620	990WD6	Dulap scule lat - 6 sertare	1	4	
625621	990WD8	Dulap scule lat - 8 sertare	1	5	

La cerere bancurile de lucru pot fi dotate cu suprafata de lucru din otel inoxidabil. Aceasta se monteaza pe blaturile de lemn 990TW







Articol	Cod	Denumire produs	mm	Model	990M1 625751 MODUL 1	990M2 625752 MODUL 2	990M3 625753 MODUL 3	990M4 625754 MODUL 4	990M5 625755 MODUL 5	990M6 625756 MODUL 6	990M7 625757 MODUL 7	990M8 625758 MODUL 8	990M9 625759 MODUL 9	990M10 625760 MODUL 10	990M11 625761 MODUL 11
990WD6	625620	Dulap pentru scule lat - 6 sertare	663x650x870		x 1	x 1								x 1	x 1
990WD8	625621	Dulap pentru scule lat - 8 sertare	663x650x870											x 1	
990ND6	625622	Dulap pentru scule ingust - 6 sertare	475x650x870		x 1					x 1					x 1
990NDH4	625626	Dulap pentru scule ingust cu montare sub blat - 4 sertare	475x650x430								x 1				
990NDH	625627	Dulap de scule cu usa si montare sub blat	475x650x430								x 1				
920PLUS1	617100	Carucior de scule EuroPlus - 8 sertare	810x510x945			x 1									
949	622671	Dulap de scule	695x660x2030			x 1									
990LA	625629	Picior reglabil pentru banc de lucru 690-1110 mm	100x650x680			x 1	x 1			x 1	x 1				
990TW	625630	Blat din lemn	1500x750x40							x 1	x 1				x 1
990TW	625631	Blat din lemn	2000x750x40		x 1	x 1	x 1								
990TW	625632	Blat din lemn	2500x750x40											x 1	
990C	625636	Traversa de legatura	1500x1425x80								x 1				
990C	625637	Traversa de legatura	2000x1925x80				x 1								
990SL	625648	Suport stanga	1155		x 1	x 1	x 1	x 1	x 1	x 1		x 1	x 1	x 1	x 1
990SR	625649	Suport dreapta	1155		x 1	x 1	x 1	x 1	x 1	x 1		x 1	x 1	x 1	x 1
990SM	625650	Suport central	1155		x 1	x 1	x 1	x 1	x 1					x 1	
990B	625652	Perete perforat, 2 bucati / set	952x28x1018		x 2	x 2	x 2	x 2	x 2						
990B	625653	Perete perforat, 2 bucati / set	1202x28x1018											x 2	
990B	625654	Perete perforat, 2 bucati / set	1436x28x1018							x 1		x 1	x 1		x 1
990HPC	625656	Suport cu 2 prize	998x130x55		x 2	x 2		x 2	x 2						
990HPC	625657	Suport cu 2 prize	1248x130x55											x 2	
990HPC	625658	Suport cu 4 prize	1498x130x55							x 1		x 1	x 1		x 1
990HPB	625660	Sport pentru module plastic	1000x40,5x98		x 1			x 1							
990HPB	625662	Sport pentru module plastic	1500x40,5x98										x 1		x 1
990HL	625663	Consola pentru suport neon	999x121x36,5		x 2			x 2							
990HL	625664	Consola pentru suport neon	1249x121x36,5											x 2	
990HL	625665	Consola pentru suport neon	1499x121x36,5										x 1		x 1
990LIGHT	625667	Dispozitiv de iluminare cu neon	870x20x30		x 2			x 2							
990LIGHT	625671	Dispozitiv de iluminare cu neon	1150x20x30										x 1		x 1
990SHELF	625672	Raft cu suporturi	1000x984x250		x 1			x 1							
990SHELF	625674	Raft cu suporturi	1500x1468x250										x 1		x 1
PB.990HPB	625749	Module din plastic, 3 bucati / set	155x235x125		x 2			x 2					x 3		x 3
997.1	609479	Carlige	50		x 20	x 20	x 20	x 20	x 20	x 20		x 20	x 20		x 20

vl990WD1

Modul SOS compartimentat pentru bancuri de lucru cu dulapuri late

• *dimensiuni compartimente: 30 x dimensiune 95x70 mm*



UNIOR

	B	L	H		
625585	562	570	40	177	**161,19**

vl990WD2

Modul SOS compartimentat pentru bancuri de lucru cu dulapuri late

• *dimensiuni compartimente: 15 x dimensiune 95x150 mm*



UNIOR

	B	L	H		
625586	562	570	40	161	**168,43**

vl990WD3

Modul SOS compartimentat pentru bancuri de lucru cu dulapuri late

• *dimensiuni compartimente: 10 x dimensiune 95x240 mm*



UNIOR

	B	L	H		
625587	562	570	40	144	**168,43**

vl990WD4

Modul SOS compartimentat pentru bancuri de lucru cu dulapuri late

• *dimensiuni compartimente: 12 x dimensiune 95x70 mm, 6 x dimensiune 95x150 mm, 2 x dimensiune 95x240 mm*



UNIOR

	B	L	H		
625588	562	570	40	165	**161,19**

vl990ND1

Modul SOS compartimentat pentru bancuri de lucru cu dulapuri inguste

• *dimensiuni compartimente: 20 x dimensiune 95x70 mm*



UNIOR

	B	L	H		
625589	374	570	40	126	**97,54**

vl990ND2

Modul SOS compartimentat pentru bancuri de lucru cu dulapuri inguste

• *dimensiuni compartimente: 10 x dimensiune 150x95 mm*



UNIOR

	B	L	H		
625590	374	570	40	111	**103,25**

vl990ND3

Modul SOS compartimentat pentru bancuri de lucru cu dulapuri inguste

• *dimensiuni compartimente: 4 x dimensiune 95x70 mm, 6 x dimensiune 95x200 mm*



UNIOR

	B	L	H		
625591	374	570	40	134	**97,54**



vl990ND4

Modul SOS compartimentat pentru bancuri de lucru cu dulapuri inguste

• *dimensiuni compartimente: 8 x dimensiune 95x70 mm, 20 x dimensiune 60x60 mm*



UNIOR

	B	L	H		
625592	374	570	40	127	**97,54**

vl990WD

Modul SOS compartimentat pentru bancuri de lucru cu dulapuri late

• *dimensiuni compartimente: 6 x dimensiune 95x70 mm 2 x dimensiune 150x70 mm*



UNIOR

	B	L	H		
625618	562	205	40	57	**64,41**

990IN4

Set 4 suruburi



UNIOR

626419	-	**8,63**

vl990ND

Modul SOS compartimentat pentru bancuri de lucru cu dulapuri inguste



UNIOR

	B	L	H		
625619	374	205	40	50	**34,67**

Banc de lucru modular - Modul A17 *(627655)*

990W750D6 (627059) - Dulap de scule varianta lata - 6 sertare
Noua linie de dulapuri de scule dimensiuni 750x650x870 mm pe care pot fi montate blat uri de lemn de dimensiuni de 1500, 2000 si 2500 mm
- *material: tabla*
- *sistem de blocare*
- *sertare pe glisiere cu rulmenti cu bile*
- *acoperire cu material sintetic care protejeaza sertarele si sculele impotriva deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *6 sertare (patru dimensiuni 564x570x70 mm, unul cu dimensiunea de 564x605x150 mm si unul cu dimensiune 564x605x230mm)*
- *posibilitatea de utilizarea a sistemului de tavi SOS pentru unelte in sertare*
- *capacitatea maxima a fiecarui sertar: 50 kg*

990CAU (627088) - Dulap suspendat pentru bancuri de lucru
- *material: tabla*
- *sistem de blocare*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu usa*
- *capacitatea maxima de incarcare a dulapului suspendat la 1000 mm este de 40 kg, capacitatea de incarcare a raftului este de 15 kg*
- *usa suspendata cu mecanismul foarfeca*
- *in partea de jos a dulapului este amplasat un suport pentru lumina*
- *blocare cu incuietoare la 90°*
- *2 posibilitati de agatare - pe piciorul de sprijin al bancului modular sau pe perete. Pentru suspendarea pe perete este necesar suportul suplimentar anexat*

h.990.SCR (627072) - Suport pentru srubelnite
- *material: tabla de 0,8 mm*
- *montarea pe peretele perforat Unior cu suruburi M6x10*
- *suport pentru durubelnite cu 5 orificii Φ15mm pentru diferite surubelnite*

h.990.PAP (627074) - Suport pentru hartie
- *constructie metalica*
- *posibilitatea de asamblare sub bancul de lucru sau pe perete*
- *pentru role de hartie de diametru maxim 370 mm si lungime maxima de 380 mm*
- *suportul are un cutit zimtat pentru o taiere usoara a hartiei*

h.990.WRE (627069) - Suport pentru chei
- *material: tabla de 1,0 mm*
- *montarea pe peretele perforat Unior cu suruburi M6x10*
- *inclinarea pe perete la 67°, permite accesul mai facil la utilizarea cheilor*
- *poate depozita 8 chei fixe sau 8 chei inelare dublu cotite (pana la dimensiunea de 24 mm)*

h.990.BAT (627068) - Suport pentru surubelnite cu acumulator
- *material: tabla de 2,0 mm*
- *2 bucatii în set*
- *montarea pe peretele perforat Unior cu doua suruburi M6x10 mm*

h.990.PLI (627070) - Suport pentru clesti
- *material: tabla de 2,0 mm*
- *un suport sustine 1 cleste*
- *montarea pe peretele perforat Unior cu surub M6x10 mm*

h.990.HAM (627071) - Suport pentru ciocane
- *material: tabla de 2,0 mm*
- *un suport sustine 1 ciocan sau 1 instrument cu maner tip T*
- *montarea pe peretele perforat Unior cu doua suruburi M6x10 mm*

h.990.TAB (627073) - Suport pentru laptop
- *material: tabla de 2,0 mm*
- *montajul pe peretele perforat al peretelui sub un unghi de 67°*
- *montaj pe peretele perforat Unior cu patru suruburi M6x10 mm*
- *latime reglabila de la minim 210 mm la maxim 340 mm cu utilizarea lateralelor*
- *suruburile de cauciuc de pe partea inferioara a suportului impiedica deteriorarea laptop-ului*

990.MD (627371) - Suport modular pentru expozitor
- *material: tabla de 1,25 mm*
- *montaj pe peretele perforat Unior sub un unghi de 13°*
- *montaj pe peretele perforat Unior cu doua suruburi M6x10 mm*
- *capacitate de incarcare 10 kg*
- *suportul are o utilizare multipla. Se poate utiliza cu cutii din plastic cu ajutorul tamponul de baza dimensiune 480 x 210 mm (cod 627385).*
- *suportul modular pentru cutii din plastic si baza are codul 627604 iar cutiile din plastic sunt disponibile in urmatoarele dimensiuni:*
- *627558: 60x60x50 mm*
- *627559: 90x60x50 mm*
- *627560: 120x60x50 mm*
- *627561: 90x90x50 mm*
- *627562: 20x120x50 mm*
- *627563: 180x90x50 mm*

Suporturile de baza sunt disponibile in urmatoarele dimensiuni:
- *627385: 480x210 mm*
- *627574: 560x360 mm*
- *627573: 930x450 mm*



	Art.		Denumire	Buc.	
627655		1155x2000x750 mm	990MA17		**13808,75**
627088	990CAU	1000x350x510	Dulap suspendat	2	
627059	990W750D6	750x650x870	Dulap de scule cu 6 sertare	1	
625631	990TW	2000x750x40	Blat din lemn	1	
625629	990LA	690 - 1110	Picioare reglabile pentru banc	1	
625648	990SL	1155	Suport stanga	1	
625650	990SM	1155	Suport mijloc	1	
625649	990SR	1155	Suport dreapta	1	
625656	990HPC	998	Suport cu prize	2	
625652	990B	952	Panou perfortat	1	
625667	990LIGHT	900	Luminator	2	
627072	h.990.SCR	188x29,5x45	Suport pentru surubelnite	2	
627069	h.990.WRE	115x85	Suport pentru chei	1	
627068	h.990.BAT	35x84x22	Suport scule electrice	1	
627070	h.990.PLI	50x22	Suport pentru clesti	5	
627071	h.990.HAM	60x50x22	Suport pentru ciocane	2	
627073	h.990.TAB	210-340x85x213	Suport pentru laptop	1	
627074	h.990.PAP	420x72x200	Suport pentru hartie	1	
627371	990.MD	460x226x58	Suport modular	1	
627558	PB.990HPBMOD	60x60x50	Cutie plastic	2	
627559	PB.990HPBMOD	90x60x50	Cutie plastic	5	
627560	PB.990HPBMOD	120x60x50	Cutie plastic	3	
627561	PB.990HPBMOD	90x90x50	Cutie plastic	1	
627562	PB.990HPBMOD	20x120x50	Cutie plastic	1	
627563	PB.990HPBMOD	180x90x50	Cutie plastic	1	
627385	BASE.990MOD	480x210	Baza suport cutii plastic	1	

990MA18

Banc de lucru modular - Modul A18 *(627656)*

990PNE (625646) - Suport de alimentare pentru banc de lucru modular
noua linie de dulapuri de scule dimensiunea 500x650x870 mm pe care poate fi montat blat din lemn de dimmensiuni de 1500, 2000 si 2500 mm.
- *suportul de alimentare pentru bancul de lucru modular include 2 role (electric si furtun) autoretractabile*
- *tamburul electric include cablu de 10 m 3x1,5 mm² pentru 220V*
- *tamburul de aer include furtun cu lungimea de 10 m, diametrul interior 8 mm, exterior diametru 12 mm, conector de 1/4 . Presiune maxima de lucru 15 bar*
- *partea inferioara cu usi si un raft in interior*
- *rolele sunt disponibile si ca articole individuale; bobina furtunului sub cod 627388 si bobina de cablu electric sub cod 627387. Tamburele pot fi asamblat pe piciorul de sprijin al bancului de lucru modulare cu ajutorul suportului pneumatic, cod 627372*

990BIN (625655) - Suport pentru curatenie pentru banc de lucru modular
- *cu 2 sertare*
- *in sertarul superior se poate monta o rola de hartie de maximum 270 mm si lungime maxima 380 mm. Exista, de asemenea, un loc pe partea din spate a sertarului pentru rezerva de hartie*
- *sertarul inferior are 2 containere separate pentru gunoi, volum 40 litri; primul container permite introducerea gunoiul prin usa din partea din fata a sertarului*

990N500D6 (627061) - Dulap pentru scule varianta ingusta - 6 sertare
Noua linie de dulapuri de scule dimensiunea 500x650x870 mm pe care poate fi montat un blat din lemn de dimensiune 1500, 2000 si 2500 mm
- *material: tabla*
- *sistem de blocare*
- *sertare pe glisiere cu rulmenti cu bile*
- *acoperire cu material sintetic care protejeaza sertarele si sculele impotriva deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *6 sertare (patru dimensiuni 374x570x70 mm, unul cu dimensiune 374x605x150 mm si unul cu dimensiune 374x605x230 mm)*
- *posibilitatea de utilizarea a sistemului de tavi SOS pentru unelte in sertare*
- *capacitatea maxima a fiecarui sertar: 100 kg*



UNIOR

Art.		Denumire	Buc.	
627656	1155x2000x750 mm	990MA17		**La cerere**
625630	990TW	1500x750x40	Blat de lemn	1
627061	990N500D6		Dulap de scule 6 sertare	1
625646	990PNE	500x650x870	Suport alimentare cu tamburi	1
625655	990BIN1		Suport curatenie	1
625658	990HPC	1498x130x55	Suport cu prize	1
625648	990SL	1155	Suport stanga	1
625649	990SR	1155	Suport dreapta	1
625654	990B	1436x28x1018	Panou perforat	2
625662	990HPB	1500x40.5x98	Suport module plastic	1
625749	PB.990HPB	155x235x125	Module plastic	3
625665	990HL	1499	Suport luminator	1
625671	990LIGHT	1200	Luminator	1
625674	990SHELF	1500	Raft cu suporturi	1

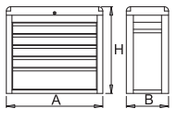


939/5E

Dulap de scule Eurostyle-5 compartimente

- *sistem de inchidere*
- *capac cu incuietoare, cand capacul este inchis sertarele sunt blocate*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *5 sertare, dimensiunea 560x265x70 mm*
- *capacitatea sertarelor: 30 kg*





UNIOR

	A	B	H				
611784	685	300	535	25000	1K	1	**2116,74**

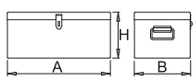
		№	938/3V,5V	
	608925	940ES3	x	**44,85**
	Set de despartitoare - 4 piese pentru 940E si 940EV			
	622597	940ES3A	x	**94,37**
	Set de despartitoare pentru sertarul mic de la 940E si 940EV			

960/1

Cutie de scule

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *destinata pentru transportul si depozitarea sculelor, masinilor electrice si echipamentelor, documentelor in conditii climaterice diverse*





UNIOR

	A	B	H				
605896	700	380	310	18000	1K	1	**1154,98**

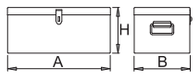


960/2

Cutie de scule

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *destinata pentru transportul si depozitarea sculelor, masinilor electrice si echipamentelor, documentelor in conditii climaterice diverse*





UNIOR

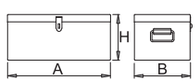
	A	B	H				
605897	840	420	335	23000	1K	1	**1291,43**

960/3

Cutie de scule

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *destinata pentru transportul si depozitarea sculelor, masinilor electrice si echipamentelor, documentelor in conditii climaterice diverse*





UNIOR

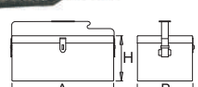
	A	B	H				
605898	910	530	430	31000	1K	1	**1528,13**

960/6

Cutie de scule pentru instalatori

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu curea sintetica*





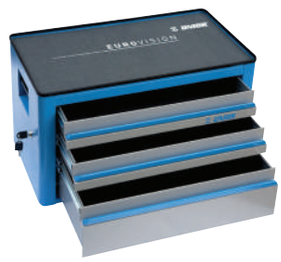
UNIOR

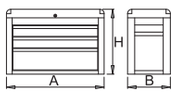
	A	B	H				
603673	550	200	230	5200	1K	1	**469,76**
612989	620	200	230	4900	1K	1	**529,55**

939/3EV

Dulap Eurovision - 3 compartimente

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *3 sertare (2 dim. 560x320x75 mm, 1 dim. 560x315x150mm*
- *capacitatea sertarelor: 30 kg*





UNIOR

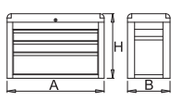
	A	B	H				
620556	690	355	394	21600	1K	1	**1784,30**

938/3V

Dulap de scule Eurostyle-3 compartimente

- *sistem de inchidere*
- *capac cu incuietoare, cand capacul este inchis sertarele sunt blocate*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *3 sertare,doua dimensiunea 585x405x75, unul de dimensiune 585x405x155*
- *capacitatea sertarelor: 30 kg*





UNIOR

	A	B	H				
615179	695	435	455	25830	1K	1	**2048,39**

		№	939/3EV,4EV	
	621400	939EVS3	x	**40,76**
	Set de 3 piese pentru partitionarea cutiei de scule Eurovision			

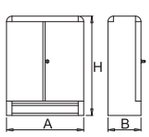


948E1

Dulap de scule

- *sistem de inchidere*
- *sertare pe rulmenti*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *1 setar, dimensiunea 575x285x75*
- *interiorul dulapului este prevazut cu tabla perforata*





UNIOR

	A	B	H				
612215	700	300	900	27500	1K	1	**2054,47**

948E1.1

Accesorii pentru 948E1

- *accesorii:carlige de agatare (35 buc dim. 35mm, 10 buc dim. 50mm si 20 buc dim. 100mm), cu suport metalic pentru chei-3 buc si suport de dalta-1 buc*



UNIOR

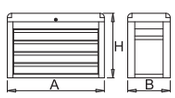
612908	2600	1K	1	**691,98**

939/4EV

Dulap Eurovision - 4 compartimente

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie sintetica pentru sertare si scule contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *4 sertare, dim. 560x275x70 mm*
- *Capacitatea sertarelor: 30 kg*





UNIOR

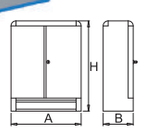
	A	B	H				
620420	690	355	394	24800	1K	1	**1878,18**

948E2

Dulap de scule

- *sistem de inchidere*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *interiorul dulapului este prevazut cu tabla perforata*





UNIOR

	A	B	H				
612216	700	300	900	26000	1K	1	**1829,10**

948E2.1

Accesorii pentru 948E2

- *accesorii:carlige de agatare (35 buc dim. 35mm, 10 buc dim. 50mm si 20 buc dim. 100mm), cu suport metalic pentru chei-3 buc si suport de dalta-1 buc*



UNIOR

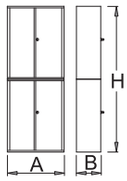
612909	2600	1K	1	**691,98**

949

Dulap de scule

- *sistem de inchidere*
- *sertare pe rulmenti*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *tabla perforata*





UNIOR

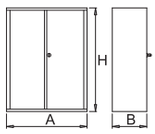
	A	B	H				
622671	695	660	2030	135000	1K	1	**7417,29**

949.1

Dulap de scule

- *sistem de inchidere*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *tabla perforata*
- *element din 949*





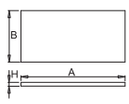
	A	B	H				
622672	695	660	1023	48800	1K	1	**2965,25**

949.3

Polita suplimentara pentru 949.1

- *vopsite cu vopsele ecologice fara cadmiu si plumb*





UNIOR

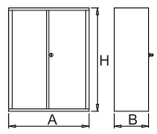
	A	B	H				
622674	689	597	32	3700	1K	1	**167,87**

949.2

Dulap de scule

- *tabla cu gauri perforate*
- *sistem de inchidere*
- *7 sertare dim.560 x 605 x 70*
- *sertare pe rulmenti*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *element din 949*





UNIOR

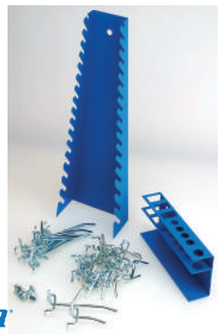
	A	B	H				
622673	695	660	1023	83400	1K	1	**4452,04**



948E3.1

Accesorii pentru 948E3

- *accesorii:carlige de agatare (20 buc dim. 35 mm, 5 buc dim. 50 mm si 10 buc dim. 100 mm), cu suport metalic pentru chei-1 buc si suport de dalta-1 buc*



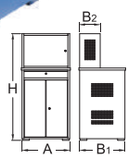
612910	1200	1K	1	**368,39**

955IND1

Dulap de scule industrial

- *aplicatii: productia industriala, service-uri auto, laboratoare, in situatiile in care masuratoarele sunt inregistrate pe computer*
  - *dulapul in partea de sus are locas pentru monitor (dimensiunile interioare sunt 625x290x430mm)*
  - *placa de lemn cu grosimea de 20 mm*
  - *sertar pentru keyboard dimensiuni 560x450x40 mm*
  - *in interiorul dulapului este un spatiu destinat computerului si echipamentele anexe. Este posibila reglarea rafturilor in 6 pozitii diferite. Dimensiunile interioare ale dulapului 635x630x810 mm*
  - *confectionat din tabla dublu galvanizata de 1 mm*
  - *cilindru de inchidere cu cheie flexibila*
  - *vopsite cu vopsele ecologice fara cadmiu si plumb*













	A	B1	B2	H				
622816	715	680	310	1553	42500	1K	1	**4175,93**

975

Stand metalic pentru cataloage

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



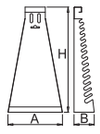
	A	B	H				
622592	632	640	1620	19600	1K	1	**1733,08**

977/1

Suport metalic pentru chei fixe

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





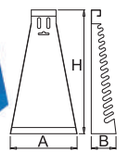
		A	B	H				
605160	6-32/12	180	50	330	420	1F	1	**58,08**

977/2

Suport metalic pentru chei combinate, varianta lunga

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





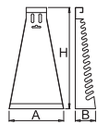
		A	B	H				
605161	6-22/17	215	55	420	590	1F	1	**58,08**

977/3

Suport metalic pentru chei combinate-varianta scurta

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





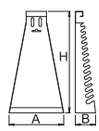
		A	B	H				
605162	6 - 22/17	115	60	420	790	1F	1	**58,08**

977/4

Suport metalic pentru chei inelare dublu cotite

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





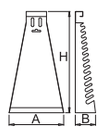
		A	B	H				
605163	6 - 32/12	220	80	410	890	1F	1	**64,31**

977/5

Suport metalic pentru chei combinate, varianta lunga

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





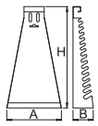
		A	B	H				
607386	6 - 32/26	305	65	730	890	1F	1	**150,51**

977/6

Suport metalic pentru chei combinate, varianta scurta

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*

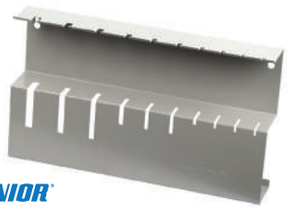




		A	B	H				
607387	6 - 32/26	205	65	730	890	1F	1	**170,84**

977/7

Suport de metal pentru surubelnite cu maner in T



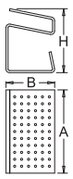
608355	890	1F	1	**105,90**

978E

Stand expozitor pentru surubelnite pentru electronisti

- *material: material transparent acrilic*





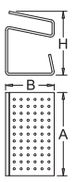
	A	B	H				
609950	230	135	185	813	1F	1	**398,60**

978BICR

Stand expozitor pentru surubelnite TBI si CR

- *material: material transparent acrilic*





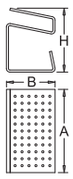
	A	B	H				
609951	330	205	206	2094	1F	1	**329,81**

978VDE

Stand expozitor pentru surubelnite VDE

- *material:material transparent acrilic*





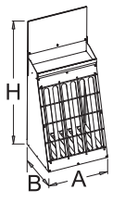
	A	B	H				
609952	330	205	240	2094	1F	1	**364,69**

979

Stand metalic pentru clesti de buloane

- *tabla cu gauri perforate*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



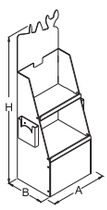


	A	B	H				
621375	500	415	1180	19400	1K	1	**1377,72**

ST.UNI1

Stand de carton pentru seturile CS





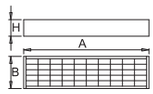
	A	B	H				
621018	670	430	1680	5600	1X	1	**618,18**

980E

Suport metalic pentru foarfeci

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





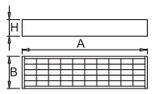
	A	B	H				
611898	530	136	63	1188	1K	1	**161,89**

980F

Suport metalic pentru dalti si dornuri

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





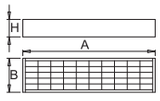
	A	B	H				
612211	410	110	78	1267	1K	1	**167,78**

980G

Suport metalic pentru dalti si dornuri

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





	A	B	H				
612212	530	136	63	821	1K	1	**90,14**



980P2

Suport metalic pentru extractoare cu doua brate

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*

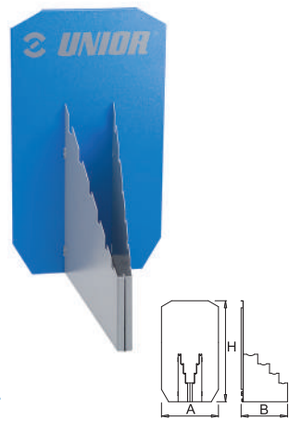


	A	B	H				
612653	240	200	430	2179	1K	1	**177,02**

980P2S

Suport metalic pentru extractoare brate reglabile

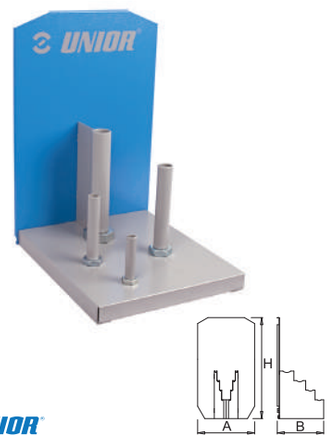
- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



	A	B	H				
615083	240	250	430	2179	1K	1	**203,38**

980P3A

Stand metalic pentru extractoare cu trei brate

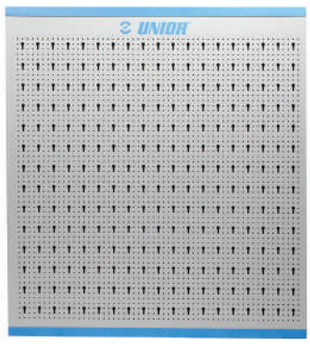


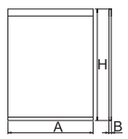
	A	B	H				
622675	283	329	428	3500	1K	1	**544,39**

996/2

Expozitor

- *material:tabla perforata*
- *utilizat pentru agatarea diferitelor tipuri de scule in diverse moduri*
- *este posibila fixarea permanenta a carligelor*
- *pozitionare usoara a sculelor*
- *posibilitate de combinare a diverselor panouri de dimensiuni diferite*



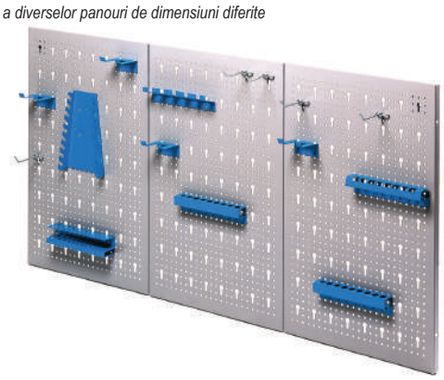


	A	B	H				
605114	900	22	972	10000	1K	1	**624,75**

997

Panou expozitor

- *material:tabla perforata*
- *utilizat pentru agatarea diferitelor tipuri de scule in diverse moduri*
- *este posibila fixarea permanenta a carligelor*
- *amplasare usoara a sculelor*
- *posibilitate de combinare a diverselor panouri de dimensiuni diferite*
- *cu set 997.2*

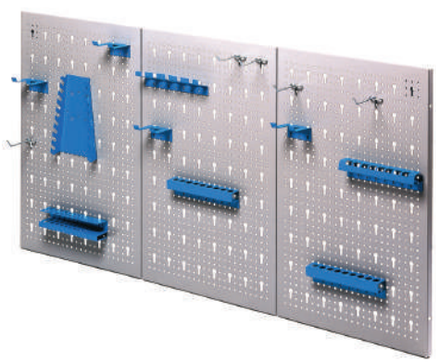


	A	B	H				
607154	1192	20	595	5000	1K	1	**667,75**

997.2

Accesorii pentru panourile de expozitor

- *suport metalic pentru surubelnite 2 buc, suport metalic pentru dalti 1 buc, suporti de agatare metalici pentru ciocane 4 buc, suporti de agatare pentru chei 1 buc, suport de agatare pentru pile 1 buc, suport de agatare pentru burghie 1 buc, carlige 5 buc*



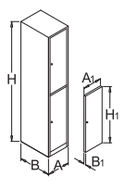
610453	845	1K	1	**197,35**

950/2

Vestiar,2 compartimente

- *Vestiarul este vopsit in camp electrostatic pentru a asigura protectia impotriva ruginei. Ca protectie suplimentara tabla este lacuita ecologic cu cadmiu si vopsea.Usile vestiarului in culori luminoase confera fiecarui compartiment o atmosfera placuta*
- *Corpul vestiarului din tabla de 0,8 mm de inalta calitate*
- *Usile din tabla de 1 mm, ranforsate impotriva torsiunii si indoirii.Usile sunt vopsite in sase culori diferite (RAL 1021, RAL 3020, RAL 5010, RAL 6029, RAL 2004 si RAL 7035)*





UNIOR

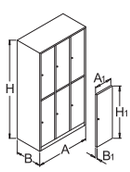
	A	B	H	A1	B1	H1				
617115	350	500	1880	300	20	875	35000	1K	1	**2056,71**

950/6

Vestiar, 6 compartimente

- *Vestiarul este vopsit in camp electrostatic pentru a asigura protectia impotriva ruginei. Ca protectie suplimentara tabla este lacuita ecologic cu cadmiu si vopsea.Usile vestiarului in culori luminoase confera fiecarui compartiment o atmosfera placuta*
- *Corpul vestiarului din tabla de 0,8 mm de inalta calitate*
- *Usile din tabla de 1 mm, ranforsate impotriva torsiunii si indoirii.Usile sunt vopsite in sase culori diferite (RAL 1021, RAL 3020, RAL 5010, RAL 6029, RAL 2004 si RAL 7035)*





UNIOR

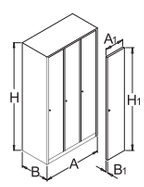
	A	B	H	A1	B1	H1				
616652	1000	500	1880	300	20	875	75000	1K	1	**4763,32**

950/3V

Vestiar cu 3 compartimente

- *Vestiarul este vopsit in camp electrostatic pentru a asigura protectia impotriva ruginei. Ca protectie suplimentara tabla este lacuita ecologic cu cadmiu si vopsea.Usile vestiarului in culori luminoase confera fiecarui compartiment o atmosfera placuta*
- *Corpul vestiarului din tabla de 0,8 mm de inalta calitate*
- *Usile din tabla de 1 mm, ranforsate impotriva torsiunii si indoirii.Usile sunt vopsite in sase culori diferite (RAL 1021, RAL 3020, RAL 5010, RAL 6029, RAL 2004 si RAL 7035)*





UNIOR

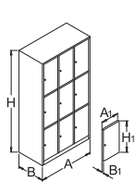
	A	B	H	A1	B1	H1				
617175	1000	500	1880	300	20	1775	75000	1K	1	**3870,39**

950/9

Vestiar cu 9 compartimente

- *Vestiarul este vopsit in camp electrostatic pentru a asigura protectia impotriva ruginei. Ca protectie suplimentara tabla este lacuita ecologic cu cadmiu si vopsea.Usile vestiarului in culori luminoase confera fiecarui compartiment o atmosfera placuta*
- *Corpul vestiarului din tabla de 0,8 mm de inalta calitate*
- *Usile din tabla de 1 mm, ranforsate impotriva torsiunii si indoirii.Usile sunt vopsite in sase culori diferite (RAL 1021, RAL 3020, RAL 5010, RAL 6029, RAL 2004 si RAL 7035)*





UNIOR

	A	B	H	A1	B1	H1				
617116	1000	500	1880	300	20	575	95000	1K	1	**5884,88**

950.1

Rama eticheta



617188	24	1V	1	**19,46**

950.3

Polite pentru 950/9,6,3,2,1



617177	2170	1X	1	**83,57**

950.4

Suport din plastic pentru 950/9,6,3,2,1



617187	150	1V	1	**32,59**

K950COMB

Incuietoare cu cifru pentru vestiar



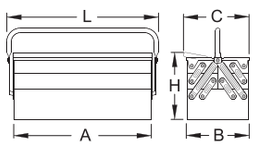
617183	216	1X	1	**270,03**

911/5

Cutie scule rabatabila cu un maner si 5 compartimente

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model lung cu un maner*





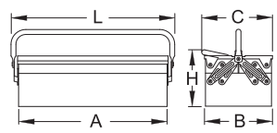
	A	B	C	L	H				
601909	460	210	220	500	225	3956	1K	1	**236,76**

912/3

Cutie scule rabatabila cu un maner si 3 compartimente

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model lung cu un maner*





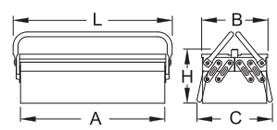
	A	B	C	L	H				
601911	560	210	220	600	175	3834	1K	1	**232,33**

911/5

Cutie scule rabatabila cu 2 manere si 3 compartimente

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model scurt cu doua manere*





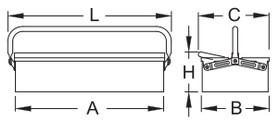
	A	B	C	L	H				
608538	460	210	235	485	225	4075	1K	1	**189,13**

912/1

Cutie scule rabatabila cu un maner si 1 compartiment

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model lung cu un maner*



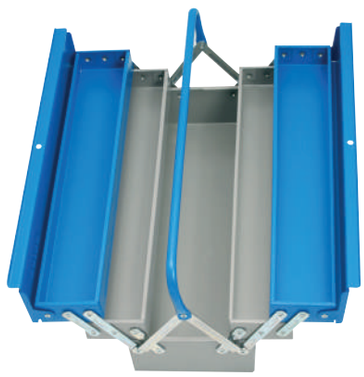


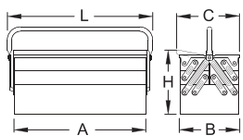
	A	B	C	L	H				
601910	560	210	220	600	125	2531	1K	1	**151,09**

912/5

Cutie scule rabatabila cu un maner si 5 compartimente

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model lung cu un maner*





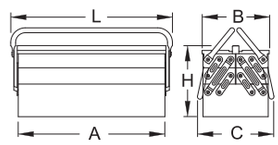
	A	B	C	L	H				
601912	560	210	220	600	225	5474	1K	1	**290,65**

912/1

Cutie scule rabatabila cu 2 manere si 5 compartimente

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model lung cu un maner*





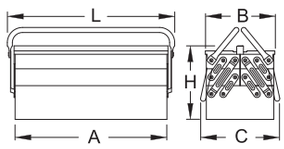
	A	B	C	L	H				
601985	460	210	235	485	225	5000	1K	1	**246,39**

915/5

Cutie scule rabatabila cu 2 manere si 5 compartimente

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model lung cu un maner*





UNIOR

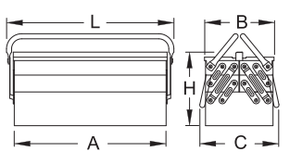
	A	B	C	L	H				
607137	560	210	235	585	225	6000	1K	1	**281,61**

7914/5

Cutie scule rabatabila cu 2 manere si 5 compartimente

- *pentru ateliere mecanice si solutie pentru depozitarea sculelor*
- *5 compartimente*
- *7 zone de depozitare*
- *grosime tabla 0,5 mm*
- *vopsita in doua culori*
- *usor de deschis si inchis*
- *maner dublu pentru mai mult confort*
- *dimensiuni: 450x200x200 mm*
- *greutate: 3,1 kg*





KRONUS

	A	B	C	L	H				
701985	450	200	200	460	200	4000	1K	1	**159,72**

911VSOS

Modul cu 4 compartiemnte pentru art. 911

- *material: spuma polietilena de joasa densitate*



UNIOR

	B	L	H				
622694	95	447	30	26	1V	1	**19,90**

912VSOS

Modul cu 5 compartiemnte pentru art. 912

- *material: spuma polietilena de joasa densitate*



UNIOR

	B	L	H				
622696	95	447	30	27	1V	1	**27,92**

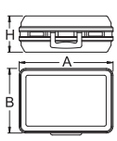
969L

Troller ABS tip diplomat pentru scule

- *troller cu maner telescopic usor de folosit*
- *corp confectionat din ABS*
- *rama robusta din aluminiu cu protectie pentru margini ascutite*
- *2 incuietori cu clame*
- *cifru*
- *despartitor pentru documente (format A4)*
- *baza interioara cu partitionare variabila*
- *dimensiuni interior: 485x350x195 mm*
- *volum: 36 l*
- *greutate cand e plina: 30 kg*







UNIOR

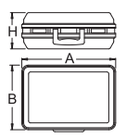
	A	B	H				
621633	510	405	270	6400	1K	1	**1497,00**

969S

Geanta ABS tip diplomat pentru scule

- *corpul confectionat din ABS*
- *rama robusta din aluminiu cu protectie pentru margini ascutite*
- *2 incuietori cu clame*
- *cifru*
- *despartitor pentru documente (format A4)*
- *baza interioara cu partitionare variabila*
- *dimensiuni interior: 455x345x160 mm*
- *volum: 26 l*
- *greutate cand e plina: 25 kg*





UNIOR

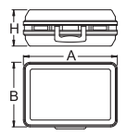
	A	B	H				
621631	485	380	175	4200	1K	1	**977,03**

970 U1

Geanta ABS tip diplomat pentru scule

- *carcasa ABS-PRO extrem de rezistenta*
- *protectie din plastica pentru cadru superdimensionata*
- *incuietori metalice speciale*
- *cadru de aluminiu extrem de robust*
- *maner ergonomic*
- *trei balamale metalice*
- *suporturi de capac foarte rezistente*
- *maner si incuietori fixate cu suruburi*
- *testat la o rezistenta de incarcare de 26 kg*





UNIOR

	A	B	H				
610381	460	310	160	4500	1K	1	**1045,56**

00 5111 8019

Cutie ABS pentru scule tip diplomat Classic

- *fabricat in Germania*
- *carcasa ABS-PRO extrem de rezistenta*
- *protectie din plastica pentru cadru superdimensionata*
- *incuietori metalice speciale*
- *cadru de aluminiu extrem de robust*
- *maner ergonomic*
- *trei balamale metalice*
- *suporturi de capac foarte rezistente*
- *maner si incuietori fixate cu suruburi*
- *testat la o rezistenta de incarcare de 35 kg*

Compartimentare:

- *despartitoare pentru documente in capac (cod 5180)*
- *desparatitor cu 2 fete cu compartimente pentru scule (cod 4766)*
- *tava si despartitor de acoperire cu compartimente pentru scule (cod 4768)*



	Dimensiuni	Greutate	Ambalare	
00 5111 8019	460x160x310 mm	5,1 kg	1	**1417,71**

00 5182 8019

Cutie ABS pentru scule tip diplomat Classic

- *fabricat in Germania*
- *carcasa ABS-PRO extrem de rezistenta*
- *protectie din plastica pentru cadru superdimensionata*
- *incuietori metalice speciale*
- *cadru de aluminiu extrem de robust*
- *maner ergonomic*
- *trei balamale metalice*
- *suporturi de capac foarte rezistente*
- *maner si incuietori fixate cu suruburi*
- *testat la o rezistenta de incarcare de 35 kg*

Compartimentare:

- *despartitoare pentru documente in capac (cod 5380)*
- *desparatitor cu 2 fete cu compartimente pentru scule (cod 5366)*
- *tava si despartitor de acoperire cu compartimente pentru scule (cod 5368)*



	Dimensiuni	Greutate	Ambalare	
00 5182 8019	470x200x360 mm	6,2 kg	1	**1584,13**

10 5122 8019

Cutie ABS pentru scule tip diplomat Classic

- *fabricat in Germania*
- *carcasa ABS-PRO extrem de rezistenta*
- *protectie din plastica pentru cadru superdimensionata*
- *incuietori metalice speciale*
- *cadru de aluminiu extrem de robust*
- *maner ergonomic*
- *trei balamale metalice*
- *suporturi de capac foarte rezistente*
- *maner si incuietori fixate cu suruburi*
- *testat la o rezistenta de incarcare de 35 kg*

Compartimentare:

- *despartitoare pentru documente in capac (cod 5180)*
- *desparatitor cu 2 fete cu compartimente pentru scule (cod 4766)*
- *desparatitor cu 2 fete cu compartimente pentru scule (cod 5164)*
- *tava si despartitor de acoperire cu compartimente pentru scule (cod 4768)*



	Dimensiuni	Greutate	Ambalare	
10 5122 8019	460x180x310 mm	6,3 kg	1	**1590,30**

00 5075 8019

Cutie ABS pentru scule tip diplomat Budget

- *fabricat in Germania*
- *carcasa ABS-PRO extrem de rezistenta*
- *protectie din plastica pentru cadru superdimensionata*
- *incuietori metalice speciale*
- *cadru de aluminiu extrem de robust*
- *maner ergonomic*
- *trei balamale metalice*
- *suporturi de capac foarte rezistente*
- *maner si incuietori fixate cu suruburi*
- *testat la o rezistenta de incarcare de 35 kg*

Compartimentare:

- *despartitoare pentru documente in capac (cod 5381)*
- *desparatitor cu 2 fete cu compartimente pentru scule (cod 5366)*
- *tava si despartitor de acoperire cu compartimente pentru scule (cod 5368)*



click-on-trolley-system inclus
incuietoare cu cifru inclusa

	Dimensiuni	Greutate	Ambalare	
00 5075 8019	470x200x360 mm	7,2 kg	1	**1867,67**

969.5S

Set de pereti cu buzunar pentru art. 969S

- *material: nailon*
- *include 2 pereti; 2 parti cu 23 de buzunare care pot fi fixate cu clipsuri metalice si o parte cu 14 buzunare si fixare rapida*



UNIOR

623152	1476	1V	1	195,12

969.4S

Set 3 partitii pentru art. 969S

- *material: ABS*
- *piesele mici nu se pierd*
- *partitie stabila*
- *cea mai buna alegere pentru impartirea spatiului liber*



UNIOR

621643	645	1V	1	127,74

969.5L

Set de pereti cu buzunar pentru art. 969L

- *material: nailon*
- *include 2 pereti; 2 parti cu 23 de buzunare care pot fi fixate cu clipsuri metalice si o parte cu 14 buzunare si fixare rapida*



UNIOR

623153	1587	1V	1	327,14

969.5L

Set de pereti cu buzunar pentru art. 969L

- *material: ABS*
- *piesele mici nu se pierd*
- *partitie stabila*
- *cea mai buna alegere pentru impartirea spatiului liber*



UNIOR

621645	825	1V	1	127,74

909/1

Geanta pentru electricieni

- *material: piele artificiala 650g, separatoare port scule*
- *incuietori, inele, nituri, bucla, buton protector realizate din metal, cromat.*
- *numar de buzunare: 11*



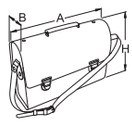
	A	B	H				
602552	350	110	300	1542	1F	1	316,87

909PES

Geanta textila pentru electricieni

- *material : poliester*
- *incuietori, inele, nituri, bucla, buton protector realizate din metal, cromat.*
- *numar de buzunare: 28*





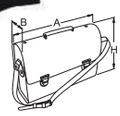
	A	B	H				
624057	420	140	320	2400	1F	1	438,39

909/1PES

Geanta textila pentru electricieni

- *material : poliester*
- *incuietori, inele, nituri, bucla, buton protector realizate din metal, cromat.*
- *numar de buzunare: 11*





UNIOR

	A	B	H				
624058	350	110	300	1540	1F	1	312,54

7909/1

Geanta textila pentru scule

- *aceasta geanta de scule este conceputa pentru a proteja uneltele*
- *9 buzunare exterioare, 3 cu capac cu velcro*
- *8 buzunare interioare*
- *este la fel de rezistenta ca o cutie de scule, dar are greutate mica si este usor de transportat*
- *dimensiuni: 510 x 290 x 270 mm*



KRONUS

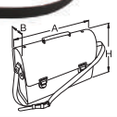
	A	B	H				
900635	510	290	270		1F	1	294,16

909

Geanta pentru electricieni

- *material: piele artificiala 650g, separatoare port scule*
- *incuietori, inele, nituri, bucla, buton protector realizate din metal, cromat.*
- *numar de buzunare: 28*





UNIOR

	A	B	H				
601939	420	140	320	2400	1F	1	447,10

7909/2

Geanta textila pentru scule

- *mica, usoara si robusta, cu fermoar pentru siguranta*
- *6 buzunare exterioare cu capac cu velcro*
- *buzunare si despartitor la interior*
- *deschiderea foarte larga asigura acces usor la toate sculele*



KRONUS

	A	B	H				
900636	400	220	280		1F	1	247,02

7909/3

Geanta textila pentru scule

• suficient de lunga pentru transportarea panzelor de bomfaier si a nivelelor, avand spatiu si buzunare si pentru alte scule
10 buzunare exterioare, 10 buzunare interioare
• dimensiuni: 600 x 260 x 400 mm



	A	B	H		
900637	600	260	400	1	**300.28**

900463

Suport textil cu 12 buzunare pentru scule

• material: textil



	A	B	H		
900463	470	10	280	80	**11,83**

71023

Centura din piele pentru scule

• material: piele bovina
• 2 buzunare mari pentru cuie
• 6 buzunare mici pentru scule
• 2 agatatori din piele pentru ciocane
• 1 agatatoare metalica pentru ruleta
• capse pentru rezistenta sporita



	A	B	H		
71023	200	40	210	1	**29,48**

71024

Centura din piele pentru scule

• material: piele bovina
• 4 buzunare mari pentru cuie
• 6 buzunare mici pentru scule
• 2 agatatori din piele pentru ciocane
• 1 agatatoare metalica pentru ruleta
• 1 buzunar tip teaca
• capse pentru rezistenta sporita



	A	B	H		
71024	540	40	210	1	**45,77**

900462

Suport din piele cu doua buzunare pentru dulgher

• material: piele bovina
• centura textila
• capse pentru rezistenta sporita



	A	B	H		
900462	600	260	400	1	**23,08**

900459

Suport din piele pentru ruleta

• material: piele bovina
• capse pentru rezistenta sporita



	A	B	H		
900459	130	65	190	1	**15,78**

900460

Suport din piele cu carlig pivotant pentru ciocan

• material: piele bovina
• inel metalic nichelat



	A	B	H		
900460	105	70	140	1	**10,85**

900461

Suport din piele cu carlig fix pentru ciocan

• material: piele bovina
• inel metalic nichelat



	A	B	H		
900461	105	60	140	1	**9,67**



917

Cutie din plastic





UNIOR

	№	A	B	H				
619765	A	514	280	260	1930	1F	1	167,44
619767	C	394	215	195	920	1F	1	91,06

A.X. 01

Cutie cu organizator si inchizator aluminiu "APEX" 13"

- *2 organizatoare cu capac*
- *catarama din aluminiu*



PORT-BAG

	A	B	H			
A.X. 01	173	334	140	504	12	36,97

A.X. 02

Cutie cu organizator si inchizator aluminiu "APEX" 16"

- *2 organizatoare cu capac*
- *catarama din aluminiu*



PORT-BAG

	A	B	H			
A.X. 02	173	334	140	1045	12	60,92

A.X. 03

Cutie cu organizator si inchizator aluminiu "APEX" 19"

- *2 organizatoare cu capac*
- *catarame din aluminiu*



PORT-BAG

	A	B	H			
A.X. 03	287	488	237	1890	6	116,62

A.X. 04

Cutie cu organizator si inchizator aluminiu "APEX" 22"

- *2 organizatoare cu capac*
- *catarame din aluminiu*



PORT-BAG

	A	B	H			
A.X. 04	350	559	284	2870	4	155,49

A.P. 01

Cutie cu organizator "STILO" 13"

- *2 organizatoare cu capac*
- *catarama din plastic*



PORT-BAG

	A	B	H			
A.P. 01	173	334	140	513	12	26,07

A.P. 02

Cutie cu organizator "STILO" 16"

- *2 organizatoare cu capac*
- *catarama din plastic*



PORT-BAG

	A	B	H			
A.P. 02	227	409	190	1028	12	46,70

A.P. 03

Cutie cu organizator "STILO" 19"

- *2 organizatoare cu capac*
- *catarame din plastic*



PORT-BAG

	A	B	H			
A.P. 03	287	488	237	1879	6	83,43

A.P. 04

Cutie cu organizator "STILO" 22"

- *2 organizatoare cu capac*
- *catarame din plastic*



PORT-BAG

	A	B	H			
A.P. 04	350	559	284	2875	4	121,36

S.M. 01

Cutie cu organizator si inchizator metalic "STRONGO" 16"

- *organizator interior cu capac*
- *catarame metalice*



PORT-BAG

	A	B	H			
S.M. 01	395	177	210	1125	12	70,79

S.M. 02

Cutie cu organizator si inchizator metalic "STRONGO" 18"

- *organizator interior cu capac*
- *catarame metalice*



PORT-BAG

	A	B	H			
S.M. 02	458	247	233	1801	9	113,94

S.M. 03

Cutie cu organizator si inchizator metalic "STRONGO" 21"

- *organizator interior cu capac*
- *catarame metalice*



PORT-BAG

	A	B	H			
S.M. 03	535	267	276	2516	6	153,91

M.L. 03

Cutie cu organizator si inchizator metalic "META" 19"

- *organizator cu capac*
- *catarame metalice*



PORT-BAG

	A	B	H			
M.L. 03	230	480	255	1605	9	**89,83**

M.L. 04

Cutie cu organizator si inchizator metalic "META" 22"

- *organizator cu capac*
- *catarame metalice*



PORT-BAG

	A	B	H			
M.L. 04	265	555	295	2372	6	**117,61**

M.L. 05

Cutie cu organizator si inchizator metalic "META" 24"

- *organizator cu capac*
- *catarame metalice*
- *maner din aluminiu*



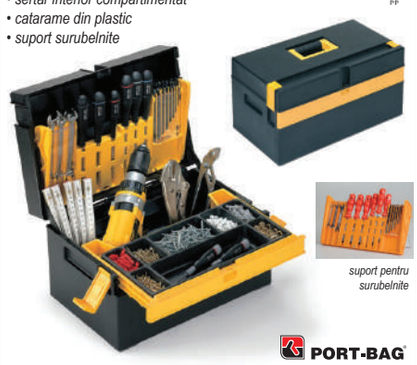
PORT-BAG

	A	B	H			
M.L. 05	277	607	314	2953	1	**173,54**

C.P. 01

Cutie din plastic cu sertar pentru scule "COMPACTO" 16"

- *sertar interior compartimentat*
- *catarame din plastic*
- *suport surubelnite*



suport pentru surubelnite

PORT-BAG

	A	B	H			
C.P. 01	270	380	220	2060	1	**143,63**



- *organizator cu capace separate*
- *inele pentru incuietoare*
- *suport burghie (19" si 22")*
- *balamale ce permit rabatarea completa a capacului*
- *mod ambalare economic*

EKONO

P.E. 01

Cutie plastic cu organizator "EKONO" 13"

- *organizator cu 3 capace separate*
- *inele pentru incuiere*
- *balamale ce permit rabatarea completa a capacului*



PORT-BAG

	A	B	H			
P.E. 01	130	320	160	497	18	**24,67**

P.E. 02

Cutie plastic cu organizator "EKONO" 16"

- *organizator cu 3 capace separate*
- *inele pentru incuiere*
- *balamale ce permit rabatarea completa a capacului*



PORT-BAG

	A	B	H			
P.E. 02	175	400	200	957	18	**44,22**

P.E. 03

Cutie plastic cu organizator "EKONO" 19"

- *organizator cu 3 capace separate*
- *inele pentru incuiere*
- *balamale ce permit rabatarea completa a capacului*



suport 8 burghie

PORT-BAG

	A	B	H			
P.E. 03	230	480	255	1509	10	**66,22**

P.E. 04

Cutie plastic cu organizator "EKONO" 22"

- *organizator cu 3 capace separate*
- *inele pentru incuiere*
- *balamale ce permit rabatarea completa a capacului*



suport 8 burghie



PORT-BAG

	A	B	H			
P.E. 04	265	555	295	2296	8	**94,76**





P.O. 06

Cutie plastic cu organizator "MAESTRO" 13"

- *organizator cu capac transparent*
- *inele pentru incuiere*



	A	B	H			
P.O. 06	135	320	150	498	12	23,07

P.O. 07

Cutie plastic cu organizator "MAESTRO" 16"

- *organizator cu capac transparent*
- *inele pentru incuiere*



	A	B	H			
P.O. 07	180	410	200	967	12	41,10

P.O. 05

Cutie plastic cu organizator "MAESTRO" 19"

- *organizator cu capac transparent*
- *inele pentru incuiere*



	A	B	H			
P.O. 05	230	480	230	1570	9	62,79

P.O. 08

Cutie plastic cu organizator "MAESTRO" 22"

- *capac fara organizator*
- *inele pentru incuiere*



	A	B	H			
P.O. 08	265	555	290	2296	6	95,91

P.S. 06

Cutie plastic "MAESTRO BASIC" 13"

- *capac fara organizator*
- *inele pentru incuiere*



	A	B	H			
P.S. 06	320	135	150	447	12	20,09

P.S. 07

Cutie plastic "MAESTRO BASIC" 16"

- *capac fara organizator*
- *inele pentru incuiere*



	A	B	H			
P.S. 07	410	175	210	853	12	35,15

P.S. 05

Cutie plastic "MAESTRO BASIC" 19"

- *capac fara organizator*
- *inele pentru incuiere*



	A	B	H			
P.S. 05	480	220	230	1400	9	54,57

P.S. 08

Cutie plastic "MAESTRO BASIC" 22"

- *capac fara organizator*
- *inele pentru incuiere*



	A	B	H			
P.S. 08	550	265	290	2333	6	84,73

P.O. 09M

Cutie plastic mobila 24"

- *organizator cu capac transparent*
- *inele pentru incuiere*
- *roti pentru transport*
- *maner rabatabil*



	A	B	H			
P.M. 09M	600	320	340	4015	12	180,85

P.O. 10M

Cutie plastic mobila dubla 18"



Maner rabatabil si doua roti pentru transport facil

suport interior detasabil

compartiment superior cu organizator

compartiment inferior incapator

	A	B	H			
P.O. 10M	450	585	270	3622	1	161,67

P.M. 01

Cutie plastic pentru scule electrice



PORT-BAG

	A	B	H			
P.M. 01	405	140	300	980	12	36,07

P.M. 02

Organizator plastic pentru scule electrice

- *organizator cu 3 capace separate*
- *inele pentru incuiere*
- *suport pentru burghie*



PORT-BAG

	A	B	H			
P.M. 02	405	155	300	1177	12	46,58

T.K. 50

Cutie plastic pentru uz general

- *inele pentru incuiere*
- *catarame din plastic*



PORT-BAG

	A	B	H			
T.K. 50	224	70	210	276	8	12,11

T.K. 70

Cutie plastic pentru uz general

- *inele pentru incuiere*
- *catarame din plastic*



PORT-BAG

	A	B	H			
T.K. 70	330	80	270	490	6	18,95

T.K. 100

Cutie plastic pentru uz general

- *inele pentru incuiere*
- *catarame din plastic*



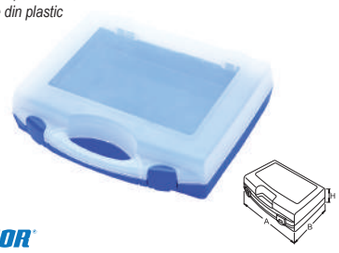
PORT-BAG

	A	B	H			
T.K. 100	500	110	350	1202	5	45,67

981PBS1

Cutie de plastic pentru capete chei tubulare, chei

- *capac transparent mat*
- *catarame din plastic*



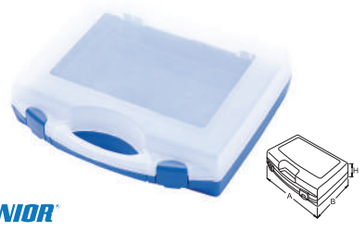
UNIOR

	A	B	H			
621620	197	167	35	140	1	36,34

981PBM1

Cutie de plastic pentru capete chei tubulare, chei

- *capac transparent mat*
- *catarame din plastic*



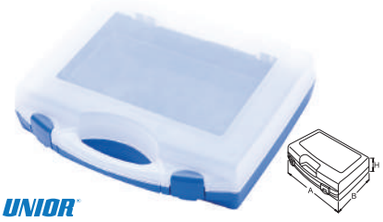
UNIOR

	A	B	H			
619768	197	167	47	152	1	36,34

981PBS2

Cutie de plastic pentru capete chei tubulare, chei

- *capac transparent mat*
- *catarame din plastic*



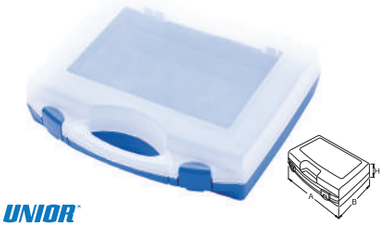
UNIOR

	A	B	H			
621621	307	260	55	152	1	84,16

981PBM2

Cutie de plastic pentru capete chei tubulare, chei

- *capac transparent mat*
- *catarame din plastic*



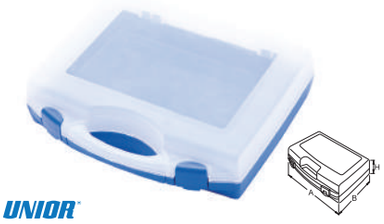
UNIOR

	A	B	H			
619769	307	260	74	420	1	84,16

981PBS3

Cutie de plastic pentru capete chei tubulare, chei

- *capac transparent mat*
- *catarame din plastic*



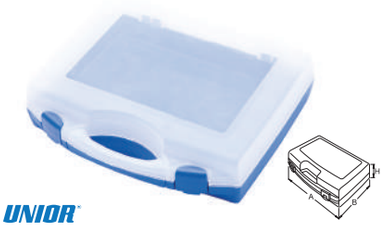
UNIOR

	A	B	H			
621622	346	292	62	510	1	99,38

981PBM3

Cutie de plastic pentru capete chei tubulare, chei

- *capac transparent mat*
- *catarame din plastic*



UNIOR

	A	B	H			
619770	346	292	83	568	1	99,T38

981PB4

Cutie de plastic pentru capete chei tubulare, chei

- *capac mat*
- *catarame din plastic*



UNIOR

	A	B	H			
619771	393	331	95	771	1	185,63

981PBS5

Cutie de plastic pentru capete chei tubulare, chei

- *capac transparent mat*
- *cataramе din plastic*



UNIOR

	A	B	H			
621618	244	207	44	290	1	79,88

981PBM5

Cutie de plastic pentru capete chei tubulare, chei

- *capac transparent mat*
- *cataramе din plastic*



UNIOR

	A	B	H			
621619	244	207	59	340	1	79,88

982PB2

Cutie de plastic mica pentru biti

- *capac transparent*
- *catarama din plastic*



UNIOR

	A	B	H			
621426	145	85	40	92	1	13,13



O.R. 06

Cutie organizator 1/8

- *material polipropilena*
- *capac transparent*



PORT-BAG

	A	B	H			
O.R. 06	165	35	140	112	54	8,19

O.R. 07

Cutie organizator 2/12

- *material polipropilena*
- *capac transparent*



PORT-BAG

	A	B	H			
O.R. 07	265	40	155	217	40	13,56

P.P. 01

Cutie plastic "POLY" 32

- *material polipropilena*
- *capac transparent*
- *partitionare variabila*



PORT-BAG

	A	B	H			
P.P. 01	320	50	265	425	18	21,23

P.P. 02

Cutie plastic "POLY" 38

- *material polipropilena*
- *capac transparent*
- *partitionare variabila*



PORT-BAG

	A	B	H			
P.P. 02	380	60	300	692	16	33,11

P.P. 03

Cutie plastic "POLY" 48

- *material polipropilena*
- *capac transparent*
- *partitionare variabila*



PORT-BAG

	A	B	H			
P.P. 03	480	75	375	1204	10	60,05

P.P. 04

Cutie plastic "POLY" 31/16

- *material polipropilena*
- *capac transparent*
- *partitionare variabila*



PORT-BAG

	A	B	H			
P.P. 04	300	54	255	548	18	36,07

P.P. 05

Cutie plastic "POLY" 41/24

- *material polipropilena*
- *capac transparent*
- *partitionare variabila*



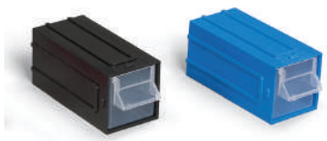
PORT-BAG

	A	B	H			
P.P. 05	400	58	370	1222	12	73, 77

P.C. 010

Modul din plastic cu sertar

- *material polipropilena*
- *sertar transparent*



PORT-BAG

Stoc curent

	A	B	H			
P.C. 010N (negru)	50	50	120	64	128	**4,78**
P.C. 010B (albastru)	50	50	120	64	128	**5,48**

P.C. 011

Modul din plastic cu sertar

- *material polipropilena*
- *sertar transparent*



PORT-BAG

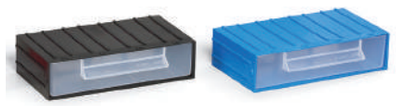
Stoc curent

	A	B	H			
P.C. 011N (negru)	105	50	120	121	64	**8,00**
P.C. 011B (albastru)	105	50	120	121	64	**9,37**

P.C. 012

Modul din plastic cu sertar

- *material polipropilena*
- *sertar transparent*



PORT-BAG

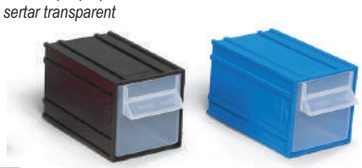
Stoc curent

	A	B	H			
P.C. 012N (negru)	220	50	120	204	32	**12,55**
P.C. 012B (albastru)	220	50	120	204	32	**14,85**

P.C. 013

Modul din plastic cu sertar

- *material polipropilena*
- *sertar transparent*



PORT-BAG

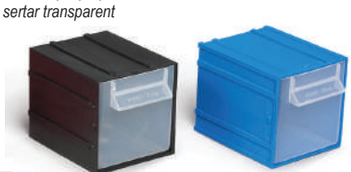
Stoc curent

	A	B	H			
P.C. 013N (negru)	80	80	140	147	80	**9,14**
P.C. 013B (albastru)	80	80	140	147	80	**10,96**

P.C. 014

Modul din plastic cu sertar

- *material polipropilena*
- *sertar transparent*



PORT-BAG

Stoc curent

	A	B	H			
P.C. 014N (negru)	110	110	140	224	60	**13,47**
P.C. 014B (albastru)	110	110	140	224	60	**15,74**

P.L. 01

Cutie plastic cu sertare 3/11

- *material polipropilena*
- *sertare transparent*



PORT-BAG

	A	B	H			
P.L. 01	315	210	140	1083	8	**59,37**

P.L. 02

Cutie plastic cu sertare 4/19

- *material polipropilena*
- *sertare transparent*



PORT-BAG

	A	B	H			
P.L. 02	315	270	140	1383	8	**78,31**

P.L.03

Cutie plastic cu sertare 5/27

- *material polipropilena*
- *sertare transparent*



PORT-BAG

	A	B	H			
P.L. 03	315	325	140	1683	8	**97,03**

P.L.04

Cutie plastic cu sertare 6/29

- *material polipropilena*
- *sertare transparent*



PORT-BAG

	A	B	H			
P.L. 04	315	385	140	1939	4	**113,01**

P.L. 05

Cutie plastic cu sertare 7/43

- *material polipropilena*
- *sertare transparente*



PORT-BAG

	A	B	H			
P.L. 05	315	445	140	2283	4	**134,73**

P.L. 06

Cutie plastic cu sertare 9/46

- *material polipropilena*
- *sertare transparente*



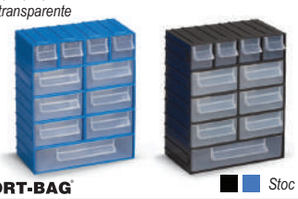
PORT-BAG

	A	B	H			
P.L. 06	315	565	140	2779	4	**163,27**

P.H. 01

Set module "HOBBY"

- *material polipropilena*
- *sertare transparente*



PORT-BAG

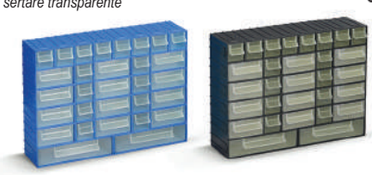
Stoc curent

	A	B	H			
P.H. 01N (negru)	225	280	120	1186	8	**86,08**
P.H. 01B (albastru)	225	280	120	1186	8	**98,89**

P.H. 02

Set module "HOBBY"

- *material polipropilena*
- *sertare transparente*



PORT-BAG

Stoc curent

	A	B	H			
P.H. 02N (negru)	450	335	120	2884	4	**209,62**
P.H. 02B (albastru)	450	335	120	2884	4	**240,91**

P.H. 03

Set module "HOBBY"

- *material polipropilena*
- *sertare transparente*



PORT-BAG

Stoc curent

	A	B	H			
P.H. 03N (negru)	340	255	140	1764	8	**118,73**
P.H. 03B (albastru)	340	255	140	1764	8	**137,47**

P.H. 04

Set module "HOBBY"

- *material polipropilena*
- *sertare transparente*



PORT-BAG

Stoc curent

	A	B	H			
P.H. 04N (negru)	425	335	140	2940	4	**201,40**
P.H. 04B (albastru)	425	335	140	2940	4	**232,89**

Module din plastic cu depozitare ergonomica



mod stivuire pentru depozitare



mod stivuire pentru transport

P.H. 05

Set module "HOBBY"

- *material polipropilena*
- *sertare transparente*



PORT-BAG — Stoc curent

	A	B	H			
P.H. 05N (negru)	112	225	120	491	24	**36,07**
P.H. 05B (albastru)	112	225	120	491	24	**41,33**

P.H. 06

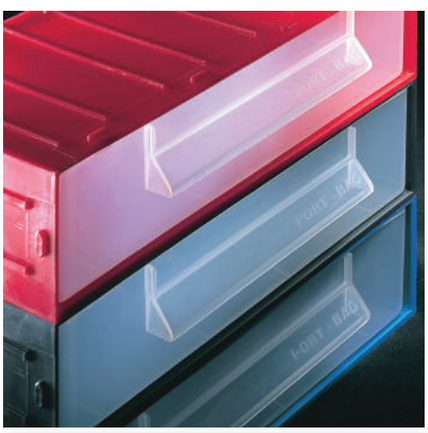
Set module "HOBBY"

- *material polipropilena*
- *sertare transparente*



PORT-BAG — Stoc curent

	A	B	H			
P.H. 06N (negru)	450	339	140	2688	4	**175,83**
P.H. 06B (albastru)	450	339	140	2688	4	**204,38**



S.C. 02

Modul plastic stivuibil

- *material: polipropilena*
- *potrivite si pentru industria alimentara*



PORT-BAG — Stoc curent — Cu precomanda

	A	B	H			
S.C. 02N (negru)	102	106	71	61	48	**2,93**
S.C. 02R (rosu)	102	106	71	61	48	**4,59**
S.C. 02B (albastru)	102	106	71	61	48	**4,59**

S.C. 03

Modul plastic stivuibil

- *material: polipropilena*
- *potrivite si pentru industria alimentara*



PORT-BAG — Stoc curent — Cu precomanda

	A	B	H			
S.C. 03N (negru)	150	238	128	204	48	**7,75**
S.C. 03R (rosu)	150	238	128	204	48	**13,39**
S.C. 03B (albastru)	150	238	128	204	48	**13,39**

S.C. 04

Modul plastic stivuibil

- *material: polipropilena*
- *potrivite si pentru industria alimentara*



PORT-BAG — Stoc curent — Cu precomanda

	A	B	H			
S.C. 04N (negru)	215	343	152	411	24	**16,53**
S.C. 04R (rosu)	215	343	152	411	24	**27,61**
S.C. 04B (albastru)	215	343	152	411	24	**27,61**

S.C. 05

Modul plastic stivuibil

- *material: polipropilena*
- *potrivite si pentru industria alimentara*



PORT-BAG — Stoc curent — Cu precomanda

	A	B	H			
S.C. 05N (negru)	304	458	178	883	8	**32,40**
S.C. 05R (rosu)	304	458	178	883	8	**51,87**
S.C. 05B (albastru)	304	458	178	883	8	**51,87**

MAS 10

Organizator 16 module



4 x P.A.01 *12 x P.A.02*



PORT-BAG — Cu precomanda

	A	B	H			
MAS 10	420	435	270	5350	1	**570,85**

MAS 20

Organizator 16 module



4 x P.A.01 *12 x P.A.02*



PORT-BAG — Cu precomanda

	A	B	H			
MAS 20	420	515	285	3990	1	**822,03**

MAS 30

Organizator 13 module



5 x P.A.03 *8 x P.A.04*



Cu precomanda

PORT-BAG

	A	B	H			
MAS 30	880	520	295	15100	1	**1324,40**

CMU 10

Organizator rotativ 72 module



48 x P.C. 010 24 x P.C. 011



PORT-BAG Cu precomanda

	A	B	H			
CMU 10	510	110	435	20560	1	2397,59

A.D. 02

Organizator 84 module



84 x P.A.02

PORT-BAG Cu precomanda

	A	B	H			
A.D. 02	700	1600	260	31550	1	4304,33

A.D. 03

Organizator 40 module



40 x P.A.03



PORT-BAG Cu precomanda

	A	B	H			
A.D. 03	700	1600	260	34720	1	4224,34

A.D. 04

Organizator 32 module



32 x P.A.04



PORT-BAG Cu precomanda

	A	B	H			
A.D. 04	900	1600	400	60520	1	4863,68

K.A.D. 01

Organizator cu usi 119 module



42 x P.C. 010



24 x P.C. 011



9 x P.C. 012



18 x P.C. 013



14 x P.C. 014



12 x P.A. 04



PORT-BAG Cu precomanda

	A	B	H			
K.A.D. 01	900	1600	400	81900	1	6279,42

K.A.D. 02

Organizator cu usi 84 module



84 x P.A.02



PORT-BAG Cu precomanda

	A	B	H			
K.A.D. 02	700	1600	260	81900	1	4178,67

K.A.D. 03

Organizator cu usi 40 module



40 x P.A.03



PORT-BAG Cu precomanda

	A	B	H			
K.A.D. 03	700	1600	260	59720	1	4681,02

K.A.D. 04

Organizator cu usi 32 module



32 x P.A.04



PORT-BAG Cu precomanda

	A	B	H			
K.A.D. 04	900	1600	400	75520	1	6051,07

A.R. 03

Organizator pe suport metalic 48 module



48 x P.A.03



PORT-BAG

Cu precomanda

	A	B	H			
A.R. 03	1000	1600	260	46660	1	**2692,58**

A.R. 04

Organizator pe suport metalic 24 module



28 x P.A.04



PORT-BAG

Cu precomanda

	A	B	H			
A.R. 04	930	1600	300	48580	1	**2540,88**

A.R. 05

Organizator pe suport metalic 18 module



18 x P.A.05



PORT-BAG

Cu precomanda

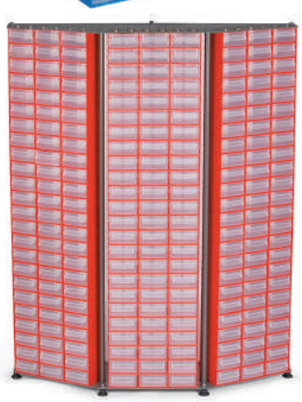
	A	B	H			
A.R. 05	1060	1600	430	50520	1	**3333,79**

C.D. 11

Organizator de perete 216 module



216 x P.C. 011



PORT-BAG

Cu precomanda

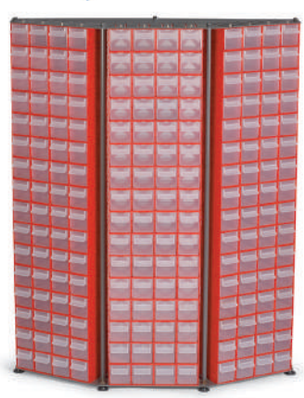
	A	B	H			
C.D. 11	1420	315	1090	55130	1	**4041,66**

C.D. 13

Organizator de perete 192 module



192 x P.C. 013



PORT-BAG

Cu precomanda

	A	B	H			
C.D. 13	1430	315	1090	57230	1	**4155,83**

C.D. 14

Organizator de perete 108 module



108 x P.C. 014



PORT-BAG

Cu precomanda

	A	B	H			
C.D. 14	1440	315	1090	54310	1	**3744,81**

MAK 20

Organizator fix 36 module



16 x P.A.01



12 x P.A.02



16 x P.A.03



PORT-BAG

Cu precomanda

	A	B	H			
MAK 20	680	1070	290	17100	1	**1687,60**

MAK 30

Organizator fix 27 module



15 x P.A.03



12 x P.A.04



PORT-BAG

Cu precomanda

	A	B	H			
MAK 30	880	1090	285	26300	1	**2808,61**

CKD. 11

Organizator mobil 152 module



144 x P.C. 011



8 x P.A.04



PORT-BAG

Cu precomanda

	A	B	H			
CKD. 11	1150	630	630	67790	1	**4840,86**

CKD. 13

Organizator mobil 136 module



128 x P.C. 013



8 x P.A.04



PORT-BAG

Cu precomanda

	A	B	H			
CKD. 13	1150	630	630	70720	1	4909,36

CKD. 14

Organizator mobil 80 module



72 x P.C. 014



8 x P.A.04



PORT-BAG

Cu precomanda

	A	B	H			
CKD. 14	1150	630	630	67010	1	4566,85

CKM. 30

Organizator mobil 432 module



432 x P.C. 011



PORT-BAG

Cu precomanda

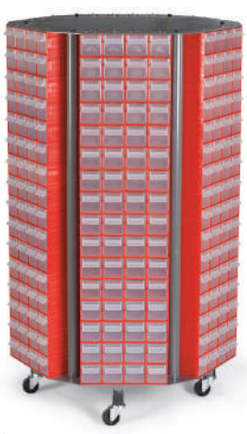
	A	B	H			
CKM. 30	1520	970	840	114900	1	8677,01

CKM. 40

Organizator mobil 384 module



384 x P.C. 013



PORT-BAG

Cu precomanda

	A	B	H			
CKM. 40	1540	1010	880	119110	1	8905,34

CKM. 50

Organizator mobil 216 module



216 x P.C. 014



PORT-BAG

Cu precomanda

	A	B	H			
CKM. 50	1560	1010	880	111900	1	8083,31

MAT 20

Organizator mobil 56 module



24 x P.A.02



32 x P.A.03



PORT-BAG

Cu precomanda

	A	B	H			
MAT 20	680	1170	540	32500	1	2306,26

MAT 30

Organizator mobil 54 module



30 x P.A.03



24 x P.A.04



PORT-BAG

Cu precomanda

	A	B	H			
MAT 20	680	1170	540	32500	1	3425,13

DP.01

Suport de perete cu accesorii pentru scule

suport de perete: 2 bucati (420x590x20 mm)
module mici: 16 bucati (115x100x74 mm)
module medii: 8 bucati (165x100x74 mm)
module mari: 4 bucati (210x100x74 mm)
carlige: 10 bucati (50x10x20 mm)
suport scule: 1 bucata (210x95x43 mm)
suport burghie/biti: 1 (165x50x27 mm)
suport chei: 1 pereche (215x65x28 mm)
suruburi + dibluri: 20 bucati



PORT-BAG



	A	B	H			
DP.01	590	840	20	2674	1	225.81

MAX430PU

Cutie impermeabila pentru scule

- *fabricat in Italia*
- *garnitura etansa in jurul capacului*
- *supapa automata de presiune*
- *usor de deschis cu doua arcuri*
- *maner soft grip testat la incarcare*
- *gauri pentru cureaua de umar*
- *sistem de stocare interblocabil*
- *corp din material gros*
- *puncte suplimentare de fixare*
- *spatiu de imprimare pe capac*
- *dimensiuni esterioare: 464x366x176 mm*
- *dimensiuni interioare: 426x290x159 mm*
- *inaltime capac + inaltime corp: 45 + 114 mm*
- *greutate: 3,92 kg*
- *capaictate: 19,64 Lt*
- *temperatura de utilizare: -30 / 90 °C*

Compartimentare:
- *despartitoar in capac*
- *desparatitor cu 2 fete cu compartimente pentru scule*
- *curea pentru umar*

IP67



Plastica Panaro

	Dimensiuni	Greutate	Ambalare	
MAX430PU	464x366x176 mm	3,92 kg	1	**1098,97**

MAX430TC

Cutie impermeabila pentru scule

- *fabricat in Italia*
- *garnitura etansa in jurul capacului*
- *supapa automata de presiune*
- *usor de deschis cu doua arcuri*
- *maner soft grip testat la incarcare*
- *gauri pentru cureaua de umar*
- *sistem de stocare interblocabil*
- *corp din material gros*
- *puncte suplimentare de fixare*
- *spatiu de imprimare pe capac*
- *dimensiuni esterioare: 464x366x176 mm*
- *dimensiuni interioare: 426x290x159 mm*
- *inaltime capac + inaltime corp: 45 + 114 mm*
- *greutate: 3,04 kg*
- *capaictate: 19,64 Lt*
- *temperatura de utilizare: -30 / 90 °C*

Compartimentare:
- *despartitoar in capac*
- *desparatitor cu 2 fete cu compartimente pentru scule*
- *curea pentru umar*

IP67



Plastica Panaro

	Dimensiuni	Greutate	Ambalare	
MAX430TC	464x366x176 mm	3,92 kg	1	**937,84**

MAX505PU

Troller impermeabil pentru scule

- *fabricat in Italia*
- *garnitura etansa in jurul capacului*
- *supapa automata de presiune*
- *usor de deschis cu doua arcuri*
- *maner soft grip testat la incarcare*
- *gauri pentru cureaua de umar*
- *sistem de stocare interblocabil*
- *corp din material gros*
- *puncte suplimentare de fixare*
- *spatiu de imprimare pe capac*
- *dimensiuni esterioare: 555x428x211 mm*
- *dimensiuni interioare: 500x350x194 mm*
- *inaltime capac + inaltime corp: 58 + 136 mm*
- *greutate: 3,90 kg*
- *capaictate: 33,95 Lt*
- *temperatura de utilizare: -30 / 90 °C*

Compartimentare:
- *despartitoar in capac*
- *desparatitor cu 2 fete cu compartimente pentru scule*
- *curea pentru umar*

IP67

trolley



Plastica Panaro

	Dimensiuni	Greutate	Ambalare	
MAX505PU	555x428x211 mm	3,90 kg	1	**1619,55**

MAX505TC

Troller impermeabil pentru scule

- *fabricat in Italia*
- *garnitura etansa in jurul capacului*
- *supapa automata de presiune*
- *usor de deschis cu doua arcuri*
- *maner soft grip testat la incarcare*
- *gauri pentru cureaua de umar*
- *sistem de stocare interblocabil*
- *corp din material gros*
- *puncte suplimentare de fixare*
- *spatiu de imprimare pe capac*
- *dimensiuni esterioare: 555x428x211 mm*
- *dimensiuni interioare: 500x350x194 mm*
- *inaltime capac + inaltime corp: 58 + 136 mm*
- *greutate: 3,90 kg*
- *capaictate: 33,95 Lt*
- *temperatura de utilizare: -30 / 90 °C*

Compartimentare:
- *despartitoar in capac*
- *desparatitor cu 2 fete cu compartimente pentru scule*
- *curea pentru umar*

IP67

trolley



Plastica Panaro

	Dimensiuni	Greutate	Ambalare	
MAX505TC	555x428x211 mm	3,90 kg	1	**1294,58**



MAGAZIN

Unior a dezvoltat un program dedicat (programul Xpace) pentru a asigura clientilor punctelor noastre de vanzare o oferta corect planificata

E vorba de un program conceput pentru a permite afisarea unei dispuneri virtuale a produselor noastre pe panourile de utilaje

Ne permite calcularea spatiului necesar pe panourile de utilaje pentru prezentarea unui ansamblu de produse dat.

UNIOR

Panou de utilaje si de accesorii	832
Suport mobil pentru panou de utilaje	835
Standuri de prezentare	838
Imbracaminte de protectie	842
Incaltaminte de protectie	842





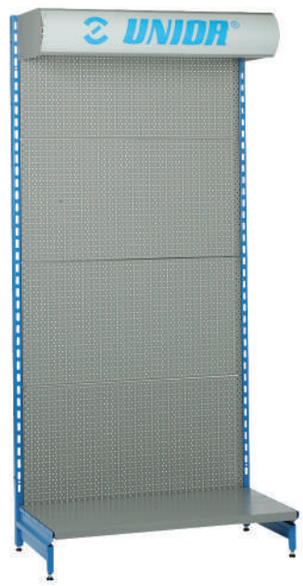


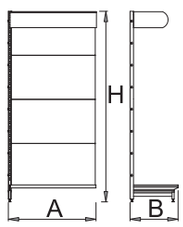


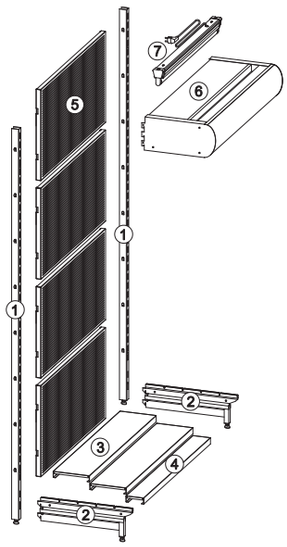
995D, 995DL, 995D1, 995D1L

Expozitor cu gauri perforate

- *material:tabla perforata*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu 100 de carlige*





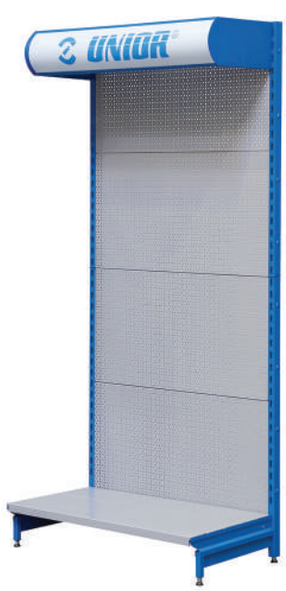


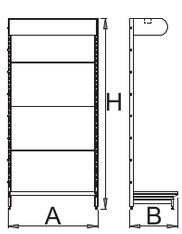
		A	B	H				1	2	3	4	5	6	7	
995D	**Expozitor cu gauri perforate**														
	616506	950	560	2200	38200	1X	1	2	2	2	1	4	1		**2561,99**
995DL	**Expozitor cu gauri perforate si iluminare**														
	616508	950	560	2200	54000	1X	1	2	2	2	1	4	1	1	**3074,41**
995D1	**Expozitor aditional cu gauri perforate**														
	616507	935	560	2200	31800	1X	1	1	1	2	1	4	1		**2261,36**
995D1L	**Expozitor aditional cu gauri perforate si iluminare**														
	616509	935	560	2200	32800	1X	1	1	1	2	1	4	1	1	**2902,60**

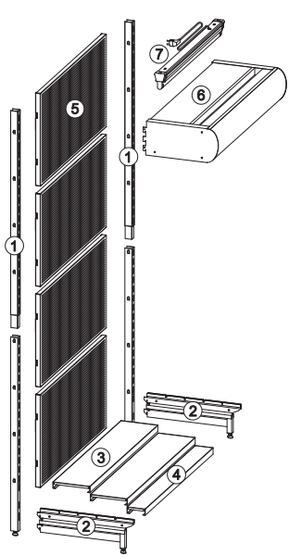
995DNL, 995DN1, 995DN1L

Expozitor cu gauri perforate si lumina

- *cu doua piciore separate*
- *material:tabla perforata*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu 100 de carlige*





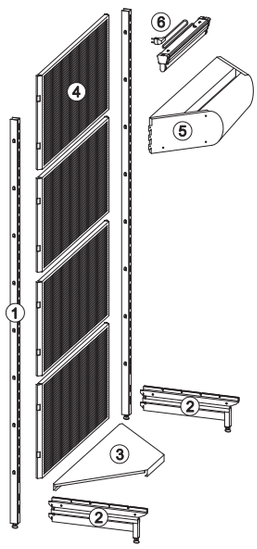


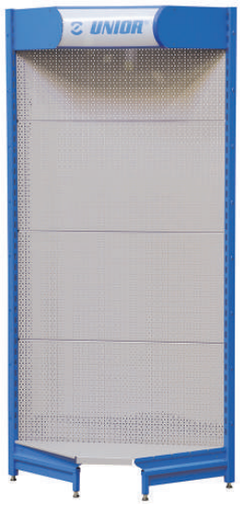
		A	B	H				1	2	3	4	5	6	7	
995DNL	**Expozitor cu gauri perforate si iluminare**														
	620570	950	560	2200	55500	1X	1	2	2	2	1	4	1	1	**3154,43**
995DN1	**Expozitor aditional cu gauri perforate**														
	620571	935	560	2200	31800	1X	1	1	1	2	1	4	1		**2301,35**
995DN1L	**Expozitor aditional cu gauri perforate si iluminare**														
	620572	935	560	2200	48400	1X	1	1	1	2	1	4	1	1	**2942,63**

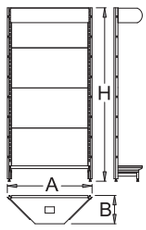
995VD, 995VD1, 995VDL, 995VD1L, 995ZD, 995ZDL

Expozitor de colt cu gauri perforate

- *material:tabla perforata*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu 100 de carlige*
- *suport propriu*
- *utilizat pentru imbinarea a doua expozitoare la 90°*







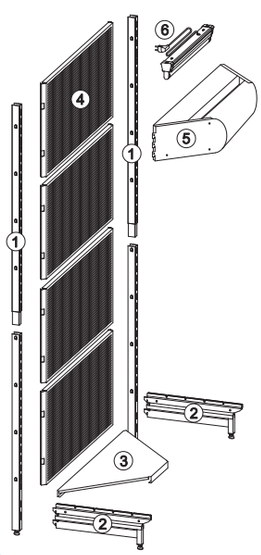
		A	B	H				1	2	3	4	5	6	
995VD	**Expozitor de colt cu gauri perforate**													
	617809	1070	410	2200	50000	1X	1	2	2	1	4	1		**2568,94**
995VDL	**Ezpozitor de colt cu gauri perforate si lumina**													
	617810	1070	410	2200	46900	1X	1	2	2	1	4	1	1	**2855,56**
995VD1	**Expozitor aditional de unghi cu gauri perforate**													
	617811	1030	410	2200	32000	1X	1			1	4	1		**2134,69**
995VD1L	**Expozitor aditional de unghi cu gauri perforate si iluminare**													
	617812	1030	410	2200	37600	1X	1			1	4	1	1	**2436,73**
995ZD	**Expozitor aditional de colt cu gauri perforate**													
	617813	1050	410	2200	40500	1X	1	1	1	1	4	1		**2396,93**
995ZDL	**Expozitor aditional de colt cu gauri perforate si iluminare**													
	617814	1050	410	2200	40100	1X	1	1	1	1	4	1	1	**2699,65**

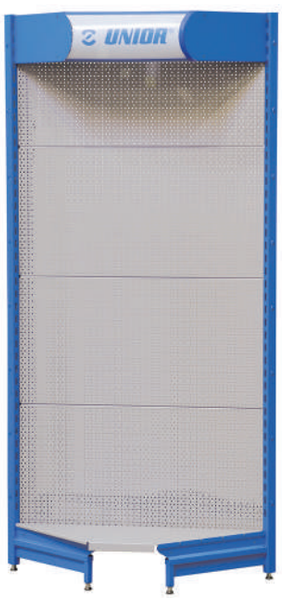
UNIOR

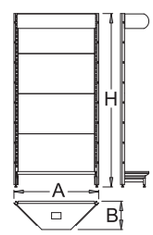
995VDN, 995VDNL, 995ZDN, 995ZDNL

Ezpozitor de colt cu gauri perforate

- *cu doua piciore separate*
- *material:tabla perforata*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu 100 de carlige*

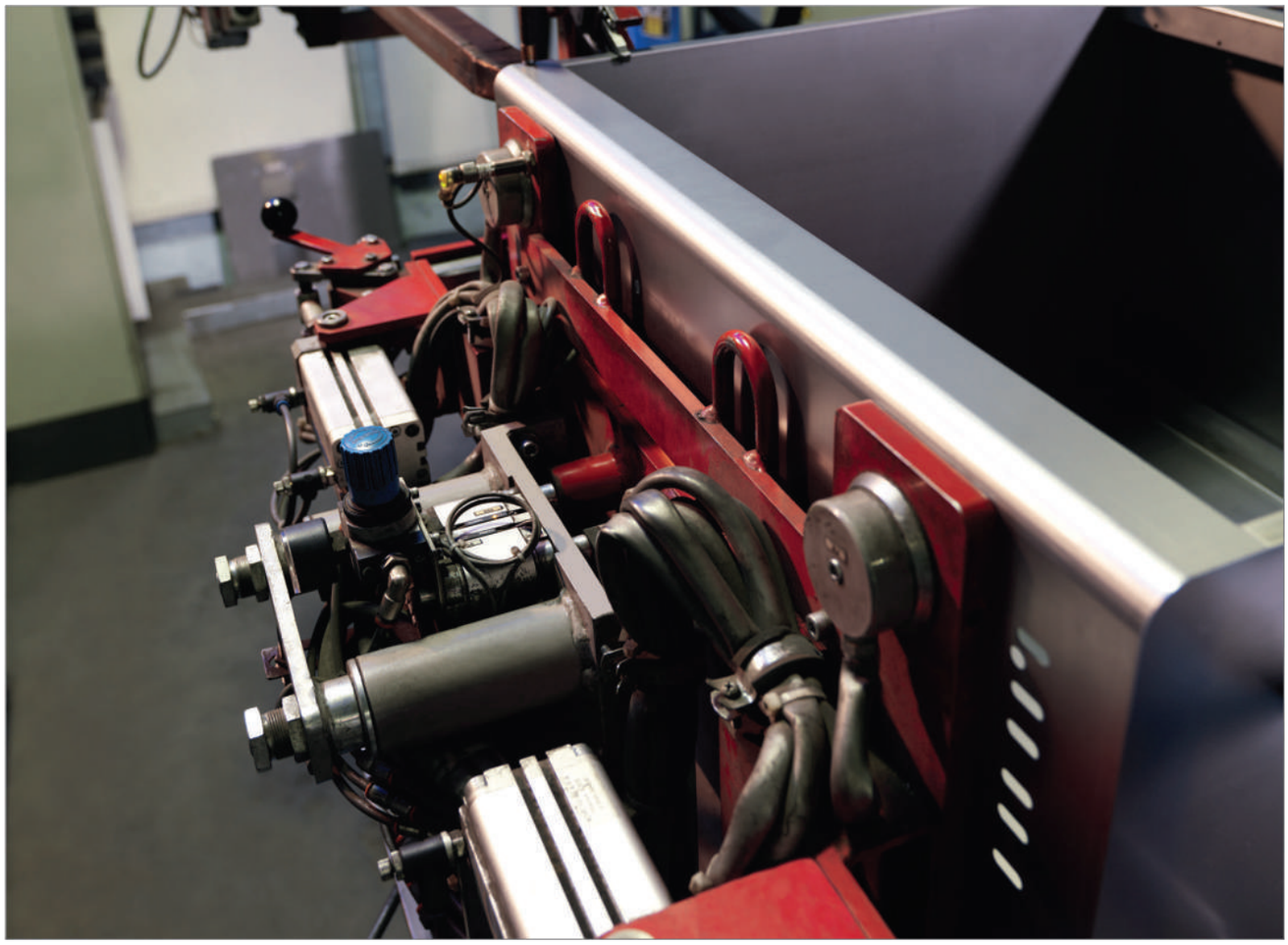






		A	B	H				1	2	3	4	5	6	
995VDN	**Expozitor de colt cu gauri perforate**													
	620573	1070	410	2200	50000	1X	1	2	2	1	4	1		**2648,96**
995VDNL	**Ezpozitor de colt cu gauri perforate si lumina**													
	620574	1070	410	2200	46000	1X	1	2	2	1	4	1	1	**2935,58**
995ZDN	**Expozitor aditional de colt cu gauri perforate**													
	620575	1050	410	2200	40500	1X	1	1	1	1	4	1		**2437,02**
995ZDNL	**Expozitor aditional de colt cu gauri perforate si iluminare**													
	620576	1050	410	2200	42400	1X	1	1	1	1	4	1	1	**2739,69**

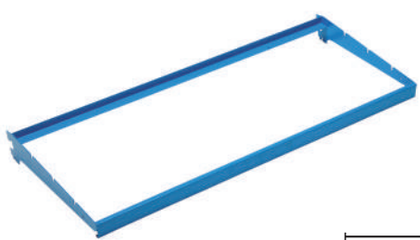
UNIOR

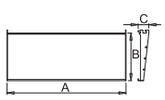


995CH

Suport pentru polita

- *material:tabla*
- *de utilizat cu expozitoarele 995C, 995D, 995E*
- *pentru polita CP1 si 995 CP2*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





UNIOR

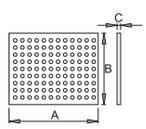
	A	B	C					
616621	950	410	90	blue	3314	1K	1	**212,29**

995CP1

polita de surubelnite

- *material:tabla*
- *utilizat cu suportul de polita*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





UNIOR

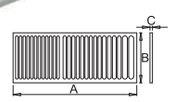
	A	B	C					
616622	475	410	20	grey	3227	1K	1	**181,93**

995CP2

polita de capete chei tubulare 1/2" si 1/4"

- *material:tabla*
- *utilizat cu suportul de polita*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





UNIOR

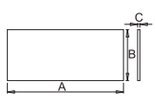
	A	B	C					
616623	950	410	20	grey	6200	1K	1	**457,85**

995CP3

Suport pentru etajera de la art.995

- *material:tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





UNIOR

	A	B	C					
616624	950	410	20	grey	3658	1K	1	**179,84**

995.2A

Picior pentru expozitor



UNIOR

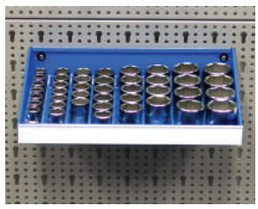
	A	B	C					
620560	2180	41	41		4670	1K	1	**271,63**

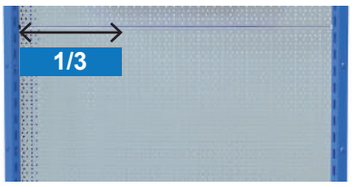
995MD

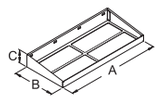
Suport modular pentru expozitor

- *material:tabla*
- *de utilizat cu expozitoarele 995C, 995D, 995E*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*

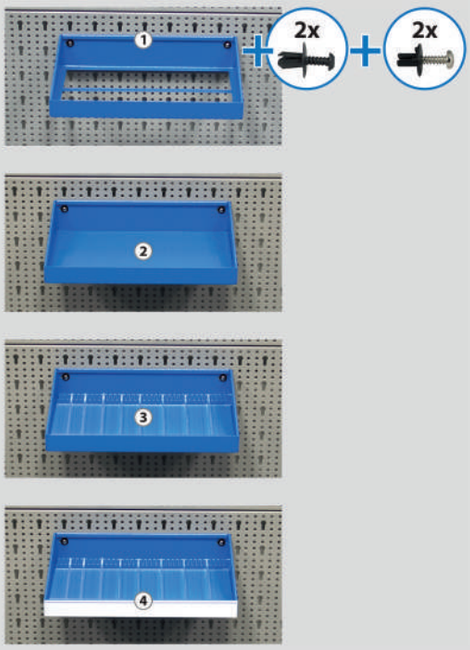






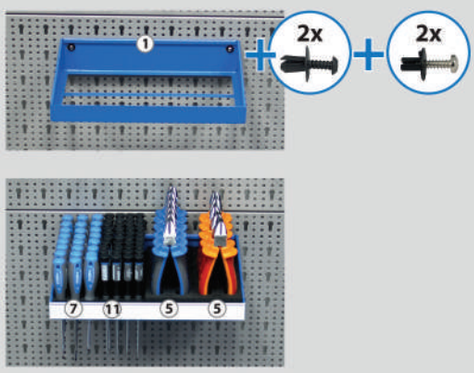


1



		A	B	C					
1	**995.0MD**	**Suport modular pentru expozitor**							
	621484	320	215	63	1	759	1K	1	**139,61**
2	**995.1MD**	**Suport inferior pentru suport modular**							
	621485	320	215	63	1	405	1K	1	**65,87**
3	**995.6MD7**	**Set format din 2 divizoare de partitii si 5 separatoare**							
	621491				7	122	1V	1	**45,48**
4	**995.2MD**	**Suport pentru etichete**							
	621486	315	45		1	60	1E	1	**12,26**
Piese de schimb									
		Ø							
995.3MD5,5	**Cui pentru stand expunere**								
	621487	5,5				2,8	1V	1	**5,16**
995.3MD6,5	**Cui pentru stand expunere**								
	621488	6,5				1,6	1V	1	**4,09**
		L							
995.5MD5	**Set de 5 separatoare**								
	621490				5	100	1V	1	**25,83**
995.4MD2	**Set de 2 divizoare de partitii**								
	621489	314			2	60	1V	1	**19,70**

2



		A	B	C					
1	**995.0MD**	**Suport modular pentru expozitor**							
	621484	320	215	63	1	759	1K	1	**139,61**
4	**995.2MD**	**Suport pentru etichete**							
	621486	315	45			60	1E	1	**12,26**
5	**995.7MDSOSPLIP6**	**modul SOS pentru clești**							
	623150					40	1V	1	**16,25**
6	**995.7MDSOSWP6**	**modul SOS pentru clești instalatori**							
	623149					40	1V	1	**16,25**
7	**995.7MDSOS85P24**	**Modul SOS pentru surubelnite**							
	621492					30	1V	1	**16,25**
8	**995.7MDSOS100P12**	**Modul SOS pentru surubelnite**							
	621493					28	1V	1	**16,25**
9	**995.7MDSOS110P12**	**Modul SOS pentru surubelnite**							
	621494					30	1V	1	**16,25**
10	**995.7MDSOS120P10**	**Modul SOS pentru surubelnite**							
	621495					27	1V	1	**16,25**
11	**995.7MDSOSEP40**	**Modul SOS pentru surubelnite electronice**							
	621496					29	1V	1	**16,25**
Piese de schimb									
		Ø							
995.3MD5,5	**Cui pentru stand expunere**								
	621487	5,5				2,8	1V	1	**5,16**
995.3MD6,5	**Cui pentru stand expunere**								
	621488	6,5				1,6	1V	1	**4,09**

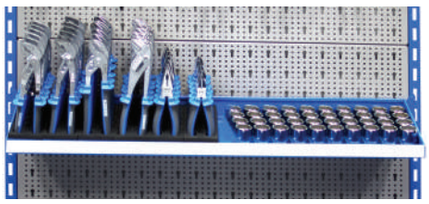
Descrierea articolului: 995.7MDSOS85P24	
995.7MD	Articol de baza
SOS	Modul din spuma SOS
85	L - C : dimensiunea-lungimea manerului surubelnitei
P24	Nmarul de produse inserate in tava SOS
E	surubelnita electronica
W	dimensiuni clesti multipriza 240 (447/1HPP, 449/1PYTHON, 442/1HYPO, 445/1BI)
PLI	Clesti standard de 160 si 180 (406/1BI, 461/1BI, ..)

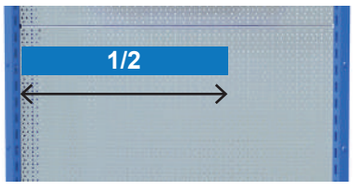
995MD

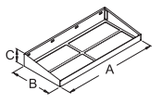
Suport modular pentru expozitor

- *material: tabla*
- *de utilizat cu expozitoarele 995C, 995D, 995E*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*

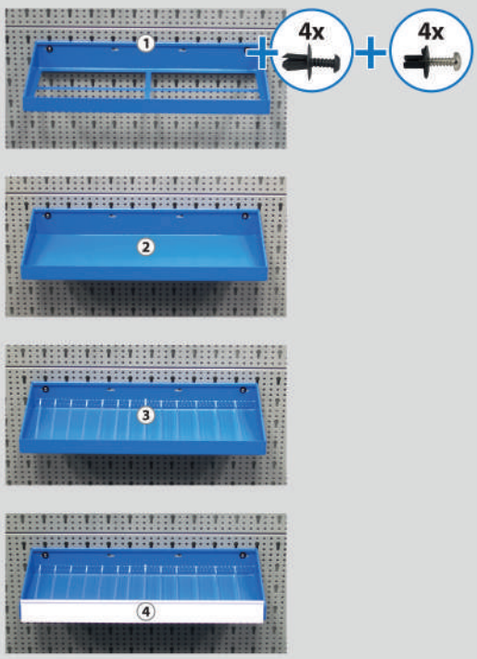






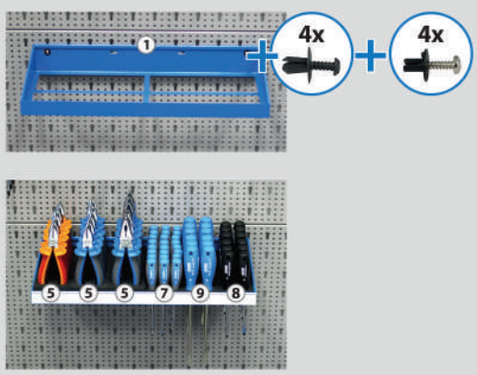


1



		A	B	C					
1	**995.0MD1**	**Suport modular pentru expozitor**							
	621607	480	215	63	1	994	1K	1	**245,37**
2	**995.1MD1**	**Suport inferior pentru suport modular**							
	621609	472	207	1.5	1	641	1K	1	**111,59**
3	**995.61MD12**	**Set format din 2 divizoare de partitii si 10 separatoare**							
	621614				12	250	1V	1	**79,92**
4	**995.2MD1**	**Suport pentru etichete**							
	621611	475	45		1	75	1E	1	**28,75**
Piese de schimb									
		Ø							
995.3MD5,5	**Cui pentru stand expunere**								
	621487		5,5			2,8	1V	1	**5,16**
995.3MD6,5	**Cui pentru stand expunere**								
	621488		6,5			1,6	1V	1	**4,09**
		L							
995.5MD5	**Set de 5 separatoare**								
	621490				5	100	1V	1	**25,83**
995.41MD2	**Set de 2 divizoare de partitii**								
	621613		470		2	70	1V	1	**28,26**

2



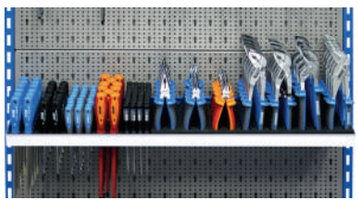
		A	B	C					
1	**995.0MD1**	**Suport modular pentru expozitor**							
	621607	480	215	63	1	994	1K	1	**245,37**
4	**995.2MD1**	**Suport pentru etichete**							
	621611	475	45			75	1E	1	**28,75**
5	**995.7MDSOSPLIP6**	**modul SOS pentru clești**							
	623150					40	1V	1	**16,25**
6	**995.7MDSOSWP6**	**modul SOS pentru clești instalatori**							
	623149					40	1V	1	**16,25**
7	**995.7MDSOS85P24**	**Modul SOS pentru surubelnite**							
	621492					30	1V	1	**16,25**
8	**995.7MDSOS100P12**	**Modul SOS pentru surubelnite**							
	621493					28	1V	1	**16,25**
9	**995.7MDSOS110P12**	**Modul SOS pentru surubelnite**							
	621494					30	1V	1	**16,25**
10	**995.7MDSOS120P10**	**Modul SOS pentru surubelnite**							
	621495					27	1V	1	**16,25**
11	**995.7MDSOSEP40**	**Modul SOS pentru surubelnite electronice**							
	621496					29	1V	1	**16,25**
Piese de schimb									
		Ø							
995.3MD5,5	**Cui pentru stand expunere**								
	621487		5,5			2,8	1V	1	**5,16**
995.3MD6,5	**Cui pentru stand expunere**								
	621488		6,5			1,6	1V	1	**4,09**

Descrierea articolului: 995.7MDSOS85P24	
995.7MD	Articol de baza
SOS	Modul din spuma SOS
85	L - C : dimensiunea-lungimea manerului surubelnitei
P24	Nmarul de produse inserate in tava SOS
E	surubelnita electronica
W	dimensiuni clesti multipriza 240 (447/1HPP, 449/1PYTHON, 442/1HYPO, 445/1BI)
PLI	Clesti standard de 160 si 180 (406/1BI, 461/1BI, ..)

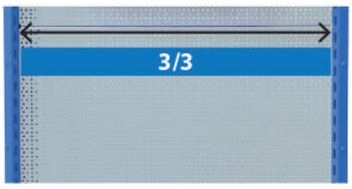
995MD

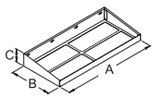
Suport modular pentru expozitor

- *material:tabla*
- *de utilizat cu expozitoarele 995C, 995D, 995E*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*

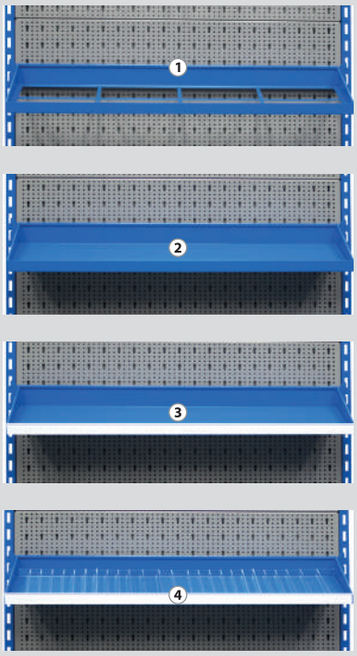






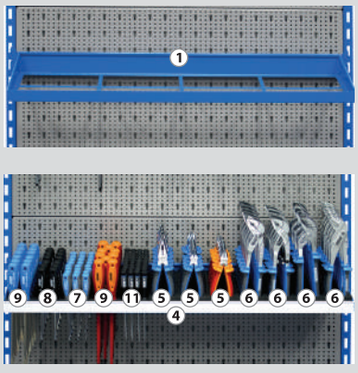


1



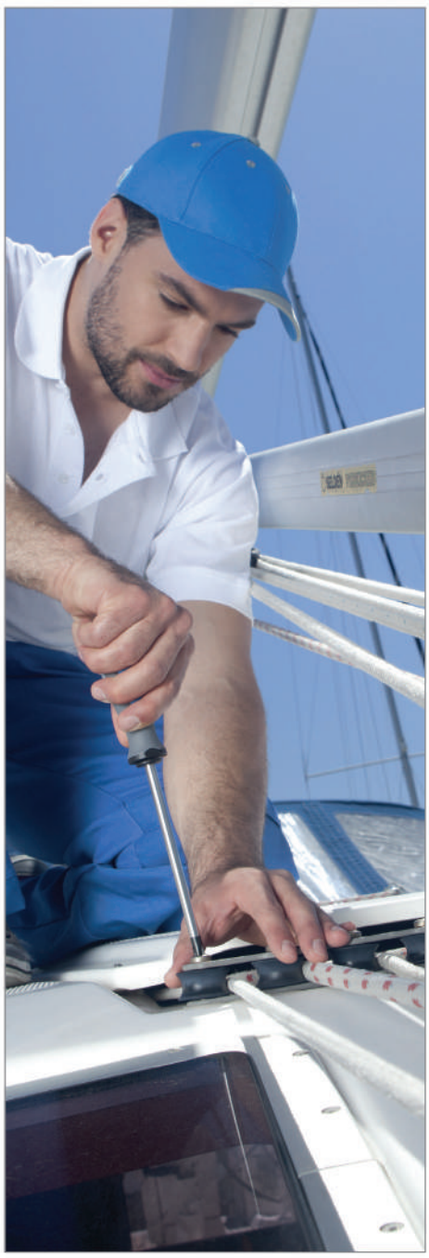
		A	B	C					
1	995.0MD2	Suport modular pentru expozitor							
	621608	960	215	63	1	2128	1K	1	456,10
2	995.1MD2	Suport inferior pentru suport modular							
	621610	944	207	1.5	1	1285	1K	1	149,24
3	995.62MD24	Set format din 4 divizoare de partitii si 20 separatoare							
	623203				24	50	1V	1	159,80
4	995.2MD2	Suport pentru etichete							
	621612	950	45		1	150	1E	1	57,26
Piese de schimb									
		L							
995.5MD5	Set de 5 separatoare								
	621490				5	100	1V	1	25,83
995.41MD2	Set de 2 divizoare de partitii								
	621489		314		2	60	/	1	28,26

2



		A	B	C					
1	995.0MD2	Suport modular pentru expozitor							
	621608	960	215	63	1	2128	1K	1	456,10
4	995.2MD2	Suport pentru etichete							
	621612	950	45			150	1E	1	57,26
5	995.7MDSOSPLIP6	modul SOS pentru clești							
	623150					40	1V	1	16,25
6	995.7MDSOSWP6	modul SOS pentru clești instalatori							
	623149					40	1V	1	16,25
7	995.7MDSOS85P24	Modul SOS pentru surubelnite							
	621492					30	1V	1	16,25
8	995.7MDSOS100P12	Modul SOS pentru surubelnite							
	621493					28	1V	1	16,25
9	995.7MDSOS110P12	Modul SOS pentru surubelnite							
	621494					30	1V	1	16,25
10	995.7MDSOS120P10	Modul SOS pentru surubelnite							
	621495					27	1V	1	16,25
11	995.7MDSOSEP40	Modul SOS pentru surubelnite electronice							
	621496					29	1V	1	16,25

Descrierea articolului: 995.7MDSOS85P24	
995.7MD	Articol de baza
SOS	Modul din spuma SOS
85	L - C : dimensiunea-lungimea manerului surubelnitei
P24	Nmarul de produse inserate in tava SOS
E	surubelnita electronica
W	dimensiuni clesti multipriza 240 (447/1HPP, 449/1PYTHON, 442/1HYPO, 445/1BI)
PLI	Clesti standard de 160 si 180 (406/1BI, 461/1BI, ..)



607SN1

Set de surubelnite TBI in suport



623914	84	1K	1	2229,40

605TBI (8x(0.4x2.5x75),8x(0.5x3.0x80), 8x(0.8x4.0x100),6x(1.0 x 5.5x125),6x(1.2x6.5x150), 4x (1.2x8.0x175)),**615TBI** (8x(PH0x60), 6x(PH1x80),6x(PH2x100)), 625TBI (6x(PZ1x80),6x(PZ2x100)), **626TBI** (6x(PH2x25)), **627TBI** (6x(0.8x4.0x25))

607SN2

Set de surubelnite TBI in suport



623915	162	1K	1	4443,33

605TBI (8x(0.4x2.5x60),8x(0.4x2.5x 75), 8x(0.5x3.0x80),8x(0.6x 3.5x100), 8x (0.8x4.0x100),8x(0.8x4.0x125),6x(1.0x5.5x100), 6x(1.0x5.5x125),6x(1.2x6.5x150),4x(1.2x8.0x175)), **615TBI** (8x(PH0x60),6x(PH1x80), 6x(PH2x100),4x(PH3x150)), 625TBI (8x(PZ0x60),6x(PZ1x80),6x(PZ2x100)), **613VDETBI** (8x(PH0x60),6x(PH1x80),6x(PH2x100)), **603VDETBI** (8x(0.5x3.0x100), 8x(0.8x4.0x100),6x(1.0x5.5x125),6x(1.2x6.5x150))

607MD1

Set de surubelnite TBI in suport modular



623916	86	1K	1	2119,66

605TBI (8x(0.4x2.5x60),8x(0.4x2.5x75), 8x(0.5x3.0x100),8x(0.6x3.5x100),8x(0.8x4.0x100), 8x(0.8x4.0x150),6x(1.0x5.5x125),6x(1.0x5.5x150), 6x(1.2x6.5x150),4x(1.2 x 8.0x175),4x(1.6x10.0x200)), **627TBI** (6x(0.8x4.0x25),6x(1.2x6.5x25)), **995.0MD1** (480x215x63), **995.2MD1** (475x45)



607MD2

Set de surubelnite TBI in suport modular



623917	78	1K	1	1995,03

615TBI (8x(PH0x60),6x(PH1x80), 6x(PH2x100),6x(PH2x150),4x(PH3x150)), **625TBI** (8x(PZ0x60),6x(PZ1x80), 6x(PZ2x100),4x(PZ3x150)), **626TBI** (6x(PH1x25),6x(PH2x25)),**628TBI** (6x(PZ1x25), 6x(PZ2x25)),**995.0MD1** (480x215x63), **995.2MD1** (475x45)

607MD4

Set de surubelnite TBI in suport modular



623919	TX 6 - TX 45 / 82	1K	1	2086,68

621TBI (8x(TX6),8x(TX7),8x(TX8), 8x(TX9),8x(TX10),8x(TX15),8x(TX20),6x(TX25), 6x(TX27),6x(TX30),4x(TX40),4x(TX45),**995.0MD1** (480x215x63), **995.2MD1** (475x45)

607MD5

Set de surubelnite TBI in suport modular



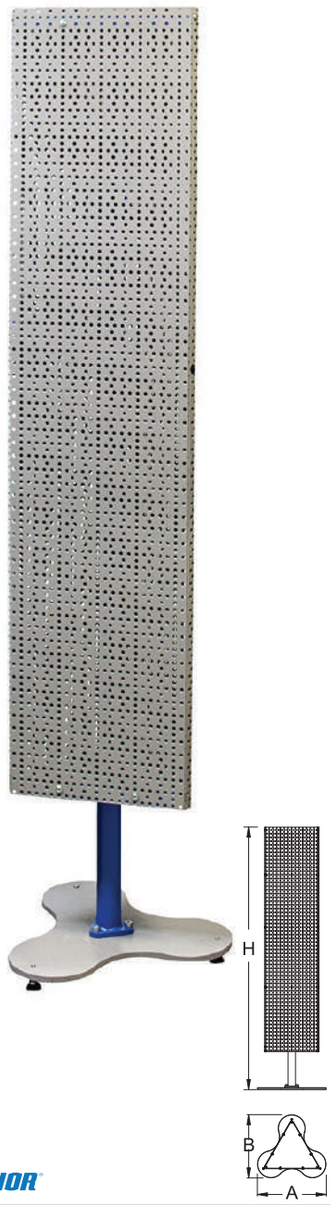
623920	5 - 13 / 46	1K	1	2540,63

629TBI (6x(5),6x(5.5),6x(6),4x(7), 4x(8),4x(9),4x(10),4x(11),4x(12),4x(13)),**995.0MD1** (480x215x63), **995.2MD1** (475x45)

978PR3K

Prezentator triunghiular

- *material: tabla perforata*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*

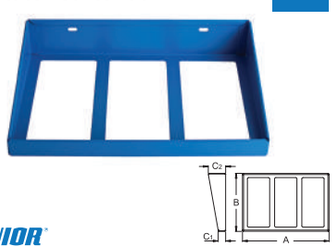


UNIOR

	A	B	H				
623912	457	420	1755	29700	1K	1	**2899,53**

ST.NKS3

Prezentator cartonat



UNIOR

	A	B	C1	C2				
623911	350	234	30	70	930	1V	1	**175,80**

721PS

Stand de prezentare pentru menghina de 125mm



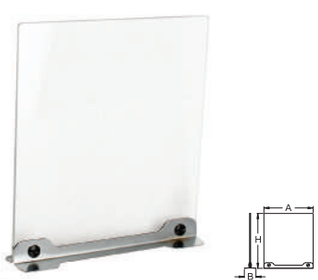
UNIOR

	A	B	H				
623923	457	420	814	16000	1K	1	**1323,14**

978LS

Stand pentru prospecte

- *material: material transparent acrilic*
- *material: tabla*

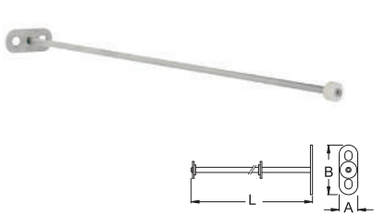


UNIOR

	A	B	H				
622577	201	47	225	260	1V	1	**60,76**

978MLH

Stand metalic pentru pliante, agatabil



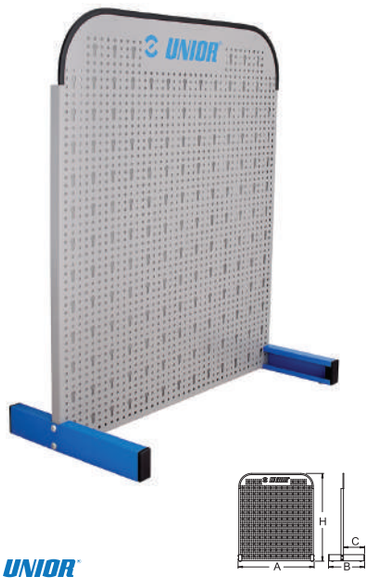
UNIOR

	A	B	L				
622602	18	48	300	60	1V	1	**28,21**

976A

Panou pe picioare proprii

- *panoul este destinat in special pentru ateliere si magazine de mici dimensiuni*
- *dimensiuni 700x700mm*



UNIOR

	A	B	C	H				
621912	612	290	170	707	5488	1K	1	**474,05**

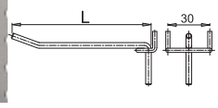


997.1

Carlig

- *pentru expunere pe dulap, panou de expozitor si bancuri de lucru*
- *este posibila fixarea carligelor intr-o pozitie ceruta*
- *cromate*





UNIOR

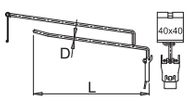
	L	D				
609478	35	4	20	V	10	**2,82**
609479	50	4	21	V	10	**2,92**
609480	80	4	15	V	10	**3,06**
609447	100	4	16	V	10	**3,21**
610559	150	5	30	V	10	**4,57**
610560	200	5	37	V	10	**5,21**

997.3

Carlig de expunere cu placuta pentru afisare pret

- *pentru expunere pe dulap, panou de expozitor si bancuri de lucru*
- *este posibila fixarea carligelor intr-o pozitie ceruta*
- *cromate*





UNIOR

	L	D				
617085	150	5	50	1F	1	**10,90**

OP1.4/2

Cuier pentru scule pneumatice cu admisia aerului de 1/4 "



UNIOR

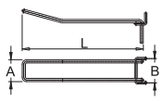
623315	1V	1	**21,36**

997.4

Carlig dublu

- *pentru expunere pe dulap, panou de expozitor si bancuri de lucru*
- *este posibila fixarea carligelor intr-o pozitie ceruta*
- *cromate*





UNIOR

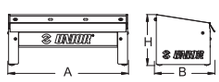
	L	A	B				
623346	150	27	30	41	1X	1	**4,57**
623347	200	27	30	51	1X	1	**5,21**
623348	250	27	30	61	1X	1	**5,55**
623349	300	27	30	71	1X	1	**5,89**

978SNN.MD1

Suport portabil, format mic

- *material:tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





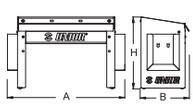
UNIOR

	A	B	H				
623784	490	245	207	2450	1K	1	**366,78**

978SNV.MD1

Suport portabil, format mare





UNIOR

	A	B	H				
623785	582	245	357	4350	1K	1	**397,19**

975

Stand metalic pentru cataloage

- *material:tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



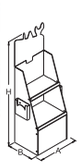
UNIOR

	A	B	H				
622592	632	640	1620	19600	1K	1	**1733,08**

ST.UNI1

Stand de carton pentru seturile CS





UNIOR

	A	B	H				
621018	670	430	1680	5600	1X	1	**618,18**

979

Suport metalic pentru clesti buloane

- *tabla cu gauri perforate*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





UNIOR

	A	B	H				
621375	500	415	1180	19400	1K	1	**1377,72**

1849

Stand Unior pentru top de hartie

- *material: material transparent acrilic*
- *pentru top hârtie 75 x 75 mm*
- *livrare fara hartie*



	A	B	H				
621846	92	110	237	225	1X	1	**131,49**

978BICR

Stand expozitor pentru surubelnite TBI si CR

- *material: material transparent acrilic*



	A	B	H				
609951	330	205	206	2094	1F	1	**329,81**

978VDE

Stand expozitor pentru surubelnite VDE

- *material: material transparent acrilic*



	A	B	H				
609952	330	205	240	2094	1F	1	**364,69**

978E

Stand expozitor pentru surubelnite pentru electronisti

- *material: material transparent acrilic*



	A	B	H				
609950	230	135	185	813	1F	1	**398,60**

539DEMO

Kit de demonstratie pentru clesti de inele de siguranta



623750	1	**1050,88**

980E

Suport metalic pentru foarfeci

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*

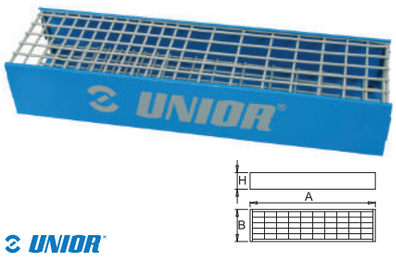


	A	B	H				
611898	530	136	63	1188	1K	1	**161,89**

980F

Suport metalic pentru dalti si dornuri

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*

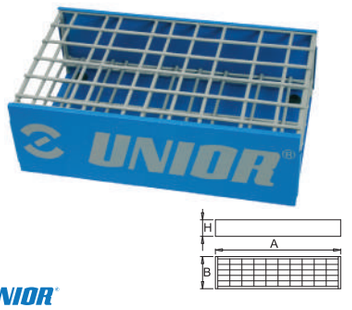


	A	B	H				
612211	410	110	78	1267	1K	1	**167,78**

980G

Suport metalic pentru dalti si dornuri

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



	A	B	H				
612212	530	136	63	821	1K	1	**90,14**

DEMO1

Kit de prezentare pentru 442/1 Hypo, cleste de inele si cheie dinamometrica



623751	1	**108,38**

980P2

Suport metalic pentru extractoare cu doua brate

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



	A	B	H				
612653	240	200	430	2179	1K	1	**177,02**

980P2S

Suport metalic pentru extractoare brate reglabile

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



	A	B	H				
615083	240	250	430	2179	1K	1	**203,38**

980P3A

Stand metalic pentru extractoare cu trei brate



	A	B	H				
622675	283	329	428	3500	1K	1	**544,39**

1830

Combinezon Unior



621667	50	1169	1V	1	413,24
621668	52	1190	1V	1	413,24
621669	54	1241	1V	1	413,24
621670	56	1262	1V	1	413,24
621671	58	1289	1V	1	413,24
621672	60	1307	1V	1	413,24
621673	62	1398	1V	1	413,24
621674	64	1478	1V	1	413,24

1831

Salopete Unior



621675	50	784	1V	1	241,86
621676	52	801	1V	1	241,86
621677	54	813	1V	1	241,86
621678	56	841	1V	1	241,86
621679	58	846	1V	1	270,90
621680	60	872	1V	1	270,90
621681	62	880	1V	1	270,90
621682	64	896	1V	1	270,90

1832

Vesta Unior



621683	50	582	1V	1	365,08
621684	52	628	1V	1	365,08
621685	54	645	1V	1	365,08
621686	56	670	1V	1	365,08
621687	58	702	1V	1	365,08
621688	60	732	1V	1	365,08
621689	62	760	1V	1	365,08
621690	64	790	1V	1	365,08



AP1

Sort textil de protectie



616497	350	1V	1	151,19

1863

Suport universal de protectie

- *material: spuma poliuretanica de joasa densitate*



621982	500	219	30	90	1E	1	37,94

1805

Incaltaminte de protectie

- *antistatica*
- *rezistenta la ulei*
- *talpa rezistenta la produse petroliere si chimice*
- *rezistenta la apa*
- *200 joules rezistenta bombeu*
- *intaritura metalica la mijlocul talpii*
- *anti-alunecare*
- *absortie de socuri*
- *in concordanta cu standard EN 20345*



S3

UNIOR

618379	38	1550	1F	1	219,53
618380	39	1550	1F	1	219,53
618381	40	1550	1F	1	219,53
618382	41	1550	1F	1	219,53
618383	42	1550	1F	1	219,53
618384	43	1550	1F	1	219,53
618385	44	1550	1F	1	219,53
618386	45	1550	1F	1	219,53
618387	46	1550	1F	1	219,53
618388	47	1550	1F	1	219,53

1805L

Incaltaminte de protectie inalta

- *antistatica*
- *rezistenta la ulei*
- *talpa rezistenta la produse petroliere si chimice*
- *rezistenta la apa*
- *200 joules rezistenta bombeu*
- *intaritura metalica la mijlocul talpii*
- *anti-alunecare*
- *absortie de socuri*
- *in concordanta cu standard EN 20345*



S3

UNIOR

618389	38	1550	1F	1	232,43
618390	39	1550	1F	1	232,43
618391	40	1550	1F	1	232,43
618392	41	1550	1F	1	232,43
618393	42	1550	1F	1	232,43
618394	43	1550	1F	1	232,43
618395	44	1550	1F	1	232,43
618396	45	1550	1F	1	232,43
618397	46	1550	1F	1	232,43
618398	47	1550	1F	1	232,43

1807

Incaltaminte de protectie

- *antistatica*
- *rezistenta la ulei*
- *talpa rezistenta la produse petroliere si chimice*
- *rezistenta la apa*
- *200 joules rezistenta bombeu*
- *intaritura metalica la mijlocul talpii*
- *anti-alunecare*
- *absortie de socuri*
- *in concordanta cu standard EN 20345*



S3

UNIOR

619906	38	1550	1F	1	259,62
619907	39	1550	1F	1	259,62
619908	40	1550	1F	1	259,62
619909	41	1550	1F	1	259,62
619910	42	1550	1F	1	259,62
619911	43	1550	1F	1	259,62
619912	44	1550	1F	1	259,62
619913	45	1550	1F	1	259,62
619914	46	1550	1F	1	259,62
619915	47	1550	1F	1	259,62

1807L

Incaltaminte de protectie inalta

- *antistatica*
- *rezistenta la ulei*
- *talpa rezistenta la produse petroliere si chimice*
- *rezistenta la apa*
- *200 joules rezistenta bombeu*
- *intaritura metalica la mijlocul talpii*
- *anti-alunecare*
- *absortie de socuri*
- *in concordanta cu standard EN 20345*



S3

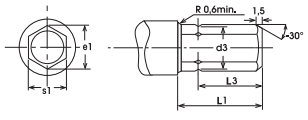
UNIOR

619916	38	1550	1F	1	259,62
619917	39	1550	1F	1	259,62
619918	40	1550	1F	1	259,62
619919	41	1550	1F	1	259,62
619920	42	1550	1F	1	259,62
619921	43	1550	1F	1	259,62
619922	44	1550	1F	1	259,62
619923	45	1550	1F	1	259,62
619924	46	1550	1F	1	259,62
619925	47	1550	1F	1	259,62

C 6.3

s1⊼	s1⊻	d3	e1⊼	e1⊻	L1	L3	r⊻	inch
6,350	6,292	6,7	7,18	7,11	11,0	8,2	0,3	1/4"

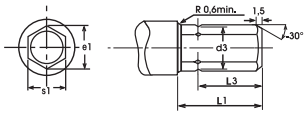




C 8

s1⊼	s1⊻	d3	e1⊼	e1⊻	L1	L3	r⊻	inch
7,930	7,872	8,2	8,96	8,90	13,5	10,2	0,3	5/16"

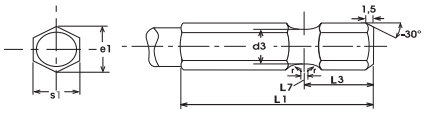




E6.3

s1⊼	s1⊻	d3	e1⊼	e1⊻	L1	L3	L7	r⊻	inch
6,350	6,292	4,7	7,18	7,11	25,0	9,5	1,0	2,4	1/4"





SURUBURI CU AMPRENTA PHILLIPS SI POZIDRIV

Dimensiune				Suruburi metrice			Suruburi			Suruburi lemn		
				Cap frezat	Cap mombat	Cilindric	Cilindric	Cap frezat	Cap mombat	Cilindric	Cap rotund	Cap mombat
				PHILLIPS								
				POZIDRIV								
		Cuplu minim										
		DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
		5263	5263	965	966	7985	7981	7982	7983	7995	7996	7997
		Nm	Nm									
+	+			M	M	M	T	T	T	Wood	Wood	Wood
0	0	1	1	1,6 2	1,6 2	1,6 1,8				2	2	2
1	1	3,5	3,9	2,5 3	2,5 3	2 3	2,2 2,9	2,2 2,9	2,2 2,9	2,5 3	2,5 3	2,5 3
2	2	8,2	10,3	3,5 5	3,5 5	3,5 5	3,5 4,8	3,5 4,8	3,5 4,8	3,5 5	3,5 5	3,5 5
3	3	19,5	32	6	6	6	5,5 6,3	5,5 6,3	5,5 6,3	5,5 7	5,5 7	5,5 7
4	4	38	88,7	8 10	8 10	8 10				8	8	8

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Cap frezat	Surub de cap
Cap mombat	Surub cu cap oval
Capac	suruburi
Cilindric	Suruburi cilindrice
suruburi fara cap	suruburi fara cap
Nituri	nituri hexagonale

SURUBURI CU FANTA

Dimensiune			Suruburi metrice												Suruburi auto filetante						Suruburi lemn		
			Cap frezat		Cap mombat		Capac		Cilindric				suruburi fara cap		Cap frezat		Cap mombat		Cilindric		Cap frezat	Cap mombat	Cap rotund
	Cuplu minim																						
	DIN	DIN	ISO	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	ISO	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
	5263	5263	2009	963	2010	964	1207	84	1580	85	920	921	4766 7435	417 427	1482	7972	1483	7973	1481	7971	97	95	96
	Nm	Nm																					
			M	M	M	M	M	M	M	M	M	M	M	M	T	T	T	T	T	T	Wood	Wood	Wood
0,4 x 2,5	0,40		1,6	1,6	1,6	1,6		1,6	1,6		2,5	1,6	3,5	3,5								1,6	2
	-							1,8															
0,5 x 3	0,7	0,8	2	2	2	2		2	2		3-3,5	2	4	4	2,2	2,2	2,2		2,2		2	2	
0,5 x 4	-	1,1							2		3,5	2							2,2				
0,6 x 3,5	1,3	1,4	2,5	2,5	2,5	2,5		2,5	2,5		4	2,5						2,2		2,2	2,5	2,5	2,5
0,6 x 4,5	-	1,8							2,5		4	2,5								2,2			2,5
0,8 x 4	2,6	2,9	3	3	3	3			3	3	5	3	5	5	2,9	2,9	2,9		2,9	2,9	3	3	3
				3,5		3,5						3,5	6	6							3,5	3,5	3,5
0,8 x 5,5	-	3,9		3,5		3,5		3	3	3	5	3						2,9	2,9	2,9			3,5
								3,5				3,5											
1 x 5,5	5,5	6,2	3,5	4	3,5	4	3,5	4	3,5	3,5	6	4			3,5	3,5	3,5		3,5	3,5	4	4	4
																3,9				3,9	4,5	4,5	4,5
1,2 x 6,5	9,4	10,5	4	5	4	5	4	4					8	8	4,2	4,2	4,2	3,5			5	5	5
			5		5										4,8	4,8	4,8	3,9					5,5
1,2 x 8	11,5	12,9					5	5	4	4	8	5						4,2	4,2	4,2	5,5	5,5	
									5	5									4,8	4,8			
1,6 x 8	20,5	22,9	6	6	6	6							10	10	5,5	5,5	5,5	4,8			6	6	6
													12	12	6,3	6,3	6,3						
1,6 x 10	25,6	28,7					6	6	6	6	10	6		14				5,5	5,5	5,5	7	7	
																			6,3	6,3	8		
2 x 12	48,0	53,8	8	8	8	8	8	8	8	8		8		16	8		8	6,3	8			8	7

SURUBURI CU CAP CILINDRIC HEXAGONAL



		Suruburi metrice						
		Capac			Cap frezat	suruburi fara cap		
	Cuplu minim	ISO 4762				ISO 4026 4029	ISO 4027	ISO 4028
	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
	911	912	6912	7984	7991	913 916	914	915
Dimensiune	Nm							
⬢		M	M	M	M	M	M	M
0,7	0,08					1,4	1,4	1,4
						1,6	1,6	1,6
						1,8	1,8	1,8
0,9	0,18					2	2	2
1,3	0,53	1,4			2,5	2,5	2,5	2,5
1,5	0,82	1,6-2				3	3	3
2	1,9	2,5		3	3	4	4	4
2,5	3,8	3		4	4	5	5	5
3	6,6	4	4	5	5	6	6	6
4	16	5	5	6	6	8	8	8
5	30	6	6	8	8	10	10	10
6	52	8	8		10	12	12	12
						14	14	14
7	78			10				
8	120	10	10	12	12	16	16	16
10	220	12	12	14	14	18	18	18
						20	20	20
12	370	14	14	16	16	22	22	22
				18	18	24	24	24
14	590	16	16	20	20			
		18	18	22	22			
17	1000	20	20	24	24			
		22	22					
19		24	24					
		27	27					
22		30	30					
24		33	33					
27		36	36					
32		42						

DIAMETRU DE FILETARE

M	Suruburi metrice
M	Surubueir metrice
T	Suruburi
W	Suruburi lemn

SIMBOLURILE DE CAPAT

–	Cu fanta	⬡	Cheie hexagonala/ sferica
+	Phillips	✪	hexagon
✚	Pozidriv	▭	Cheie tubulara pentru nituri cap patrat
✪	Torx©	■	Robertson
✲	Torx TR	●	poanson

SURUBURI CU CAP HEXAGONAL



		Suruburi metrice						Suruburi	
		Suruburi				Nituri		Surub pentru tabla	Surub pentru lemn
	Cuplu minim	ISO 4018	ISO 4016	ISO 4014	ISO 4017	ISO 4035 4036		ISO 1479	
	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
	899	558	601	931	933	439	934	7976	571
Dimensiune	Nm								
⬡ SW		M	M	M	M	MO	MO	T	T
3,5	1,64						1,8		
4	2,37			2	2	2	2		
4,5	3,30				2,3				
5	4,44			2,5	2,5	2,5	2,5	2,9	
5,5	5,80			3	3	3	3	3,5	
6	7,40			3,5	3,5	3,5	3,5		
7	11,4			4	4	4	4	3,9	4
								4,2	
8	16,6	5	5	5	5	5	5	4,8	5
								5,5	
9	23								
10	31	6	6	6	6	6	6	6,3	6
11	40,4			7	7		7		
12	51,5								7
13	64,5	8	8	8	8	8	8	8	8
14	79,4		-	-	-	-	-	-	-
15	96,2		-	-	-	-	-	-	-
16	115	10	10	10	10	10			
17	134	10	10	10	10	10	10		10

SURUBURI TORX





				Suruburi metrice						Suruburi auto filetante		
				Capac	Cap frezat	Cap mombat	Capac	Frezat bombat	Cap frezat	Frezat cilindric	Cap frezat	Cap mombat
		Cuplu minim		DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
Torx	mm	Nm	Nm	912	963	964	7984	7985	7986	7981	7972	7973
					965	966	6912				7982	7983
				M	M	M	M	M	M	T	T	T
T 6	1,72	0,75	0,91	**	**	**	**	**	**	**	**	**
T 7	1,99	1,4	1,7	**	**	**	**	**	**	**	**	**
T 8	2,31	2,2	2,6	2,5	2,5	2,5		2,5		2,9	2,9	2,9
T 9	2,50	2,8	3,4							2,9		
T 10	2,74	3,7	4,5	3	3	3	3	3	3	3,5	3,5	3,5
T 15	3,27	6,4	7,7		3,5	3,5		3,5		3,9	3,9	3,9
T 20	3,86	10,5	12,7	4	4	4	4	4	4	4,2	4,2	4,2
T 25	4,43	15,9	19,0	5	5	5	5	5	5	4,8	4,8	4,8
T 27	4,99	22,5	26,9	**	**	**	**	**	**	**	**	**
T 30	5,25	31,1	37,4	6	6	6	6	6	6	6,3	6,3	6,3
T 40	6,65	54,1	65,1	8	8	8	8	8	8			
T 45	7,82	86,2	104	**	**	**	**	**	**	**	**	**
T 50	8,83	132	159	10	10	10	10	10	10			

** Suruburi speciale

Compararea aproximativa a diferitelor duritati ale otelului

Duritate in functie de:				Duritatea otelului in: N/mm2 N/mm2
Brinell	Vickers	Rockwell		
HBW	HV	HRB	HRC	
192	192	92	14	690
197	197	93	15	710
201	201	94	16	720
207	207	95	17	750
212	212	96	18	760
217	217	97	19	780
223	223	98	20	800
229	229	99	21	820
235	235	100	22	850
241	241	101	23	870
248	248	102	24	890
255	256	103	25	920
262	263	104	26	940
269	270	105	28	970
277	279	106	29	1000
285	287	107	30	1030
293	296	107	31	1040
302	305	108	32	1090
311	316	109	33	1120
321	327	110	34	1160
330	339	111	35	1190
341	350	111	36	1220
352	363	112	37	1270
363	375	113	38	1310
375	389	113	40	1350
388	404	114	41	1400
400	420	114	42	1440
	437	115	44	1490
	454		45	1550
	473		46	1600
	496		47	1660
	520		49	1720
	546		50	1780
	575		52	1850
	608		53	1920
	645		55	2000
	692		57	2080
	735		58	2160
	790		60	2260
	845		62	2350
	930		64	2460

Tabel de conversie a cuplurilor de strangere

Unitate de masura	Unitate de masura					
	= Ncm	= Nm	= kpcm	= kpm	= lbf.in.	= lbf.ft
Ncm	1	0,01	0,10197	0,00102	0,0885	0,00738
Nm	100	1	10,197	0,10197	8,851	0,7376
kpcm	9,807	0,09807	1	0,01	0,868	0,0723
kpm	980,07	9,807	100	1	86,796	7,233
lbf.in.	11,298	0,11298	1,152	0,01152	1	0,0833
lbf.ft.	135,58	1,3558	13,825	0,13825	12	1

Tabele de conversie a unitatilor de greutate

Unitate de masura	Unitate de masura					
	= N	= kN	= kg	= g	= mg	= lb
N	1	0,001	0,102	102	102000	0,2248
kN	1000	1	102	102000	102000000	224,8
kg	9,807	0,009807	1	1000	1000000	2,205
g	0,009807	0,000009807	0,001	1	1000	0,002205
mg	0,000009807	9,807e-9	0,000001	0,001	1	0,000002205
lb	4,448	0,004448	0,4536	453,6	453600	1

Tabel de conversie a unitatilor de masura a vitezei

Unitate de masura	Unitate de masura			
	= km/s	= m/s	= mph	= Noduri
km/s	1	1000	2237	1944
m/s	0,001	1	2,237	1,944
mph	0,000447	0,447	1	0,869
Noduri	0,0005144	0,5144	1,151	1

Tabel de conversie a unitatilor de masura a unghiurilor

Unitate de masura	Unitate de masura		
	= deg	= rad	= grad
deg	1	0,01745	1,111
rad	57,3	1	63,66
grad	0,9	0,01571	1

Tabel de conversie a unitatilor de masura a debitului de fluide

Unitate de masura	Unitate de masura		
	l/min	m3/min	cm3/min
l/min	1	0,001	1000
m3/min	1000	1	1000000
cm3/min	0,001	0,000001	1

Format harite in concordanta cu ISO

A		B		C	
4A0	1682 x 2378	-	-	-	
2A0	1189 x 1682	-	-	-	
A0	841 x 1189	B0	1000 x 1414	C0	917 x 1297
A1	594 x 841	B1	707 x 1000	C1	648 x 917
A2	420 x 594	B2	500 x 707	C2	458 x 648
A3	297 x 420	B3	353 x 500	C3	324 x 458
A4	210 x 297	B4	250 x 353	C4	229 x 324
A5	148 x 210	B5	176 x 250	C5	162 x 229
A6	105 x 148	B6	125 x 176	C6	114 x 162
A7	74 x 105	B7	88 x 125	C7	81 x 114
A8	52 x 74	B8	62 x 88	C8	57 x 81
A9	37 x 52	B9	44 x 62	C9	40 x 57
A10	26 x 37	B10	31 x 44	C10	28 x 40

Table de conversie a unitatilor de masura								
Unitate de masura	Unitate de masura							
	= inch	= yard	= picior	= km	= m	= mm	= micron	= nm
inch	1	0,02778	0,08333	0,0000254	0,0254	25,4	25400	25400000
yard	36	1	3	0,0009144	0,9144	914,4	914400	914400000
picior	12	0,3333	1	0,0003048	0,3048	304,8	304800	304800000
km	39370	1094	3281	1	1000	1000000	1000000000	1000000000000
m	39,37	1,094	3,281	0,001	1	1000	1000000	1000000000
mm	0,03937	0,001094	0,003281	0,000001	0,001	1	1000	1000000
micron	0,00003937	0,000001094	0,000003281	1e-9	0,000001	0,001	1	1000
nm	3,937e-8	1,094e-9	0,000	1e-12	1e-9	0,000001	0,001	1

Table de conversie a unitatilor de putere calorica							
Unitate de masura	Unitate de masura						
	= kJ	= kcal	= cal	= kWh	= Wh	= Ws	= BTU
kJ	1	0,2388	238,8	0,0002778	0,2778	1000	0,9478
kcal	4,187	1	1000	0,001163	1,163	4187	3,968
cal	0,004187	0,001	1	0,000001163	0,001163	4,187	0,003968
kWh	3600	859,8	859800	1	1000	3600000	3412
Wh	3,6	0,8598	859,8	0,001	1	3600	3.412
Ws	0,001	0,0002388	0,2388	2,778e-7	0,0002778	1	0,0009478
BTU	1,055	0,252	252	0,0002931	0,2931	1055	1

Tabel de conversie a unitatilor de masura de presiune							
Unitate de masura	Unitate de masura						
	= bar	= kPa	= hPa	= milibar	= Pa	= kgf/m2	= psi
bar	1	100	1000	1000	100000	10200	14,5
kPa	0,01	1	10	10	1000	102	0,145
hPa	0,001	0,1	1	1	100	10,2	0,0145
milibar	0,001	0,1	1	1	100	10,2	0,0145
Pa	0,00001	0,001	0,01	0,01	1	0,102	0,000145
kgf/m2	0,00009807	0,009807	0,09807	0,09807	9,807	1	0,001422
psi	0,06895	6,895	68,95	68,95	6895	703,1	1

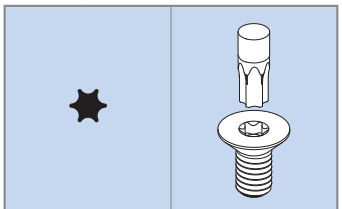
- Pentru a converti in MILIMETRII inmultiti inch cu 25.4
- Pentru a converti in INCH: inmultiti milimetri cu 0.03937

INCH		METRIC
Fractionar	Decimal	mm
.	0.0039	0.1000
.	0.0079	0.2000
.	0.0118	0.3000
1/64	0.0156	0.3969
.	0.0157	0.4000
.	0.0197	0.5000
.	0.0236	0.6000
.	0.0276	0.7000
1/32	0.0313	0.7938
.	0.0315	0.8000
.	0.0354	0.9000
.	0.0394	1.0000
.	0.0433	1.1000
3/64	0.0469	1.1906
.	0.0472	1.2000
.	0.0512	1.3000
.	0.0551	1.4000
.	0.0591	1.5000
1/16	0.0625	1.5875
.	0.0630	1.6000
.	0.0669	1.7000
.	0.0709	1.8000
.	0.0748	1.9000
5/64	0.0781	1.9844
.	0.0787	2.0000
.	0.0827	2.1000
.	0.0866	2.2000
.	0.0906	2.3000
3/32	0.0938	2.3813
.	0.0945	2.4000
.	0.0984	2.5000
7/64	0.1094	2.7781
.	0.1181	3.0000
1/8	0.1250	3.1750
.	0.1378	3.5000
9/64	0.1406	3.5719
5/32	0.1563	3.9688
.	0.1575	4.0000
11/64	0.1719	4.3656
.	0.1772	4.5000
3/16	0.1875	4.7625
.	0.1969	5.0000
13/64	0.2031	5.1594
.	0.2165	5.5000
7/32	0.2188	5.5563
15/64	0.2344	5.9531
.	0.2362	6.0000
1/4	0.2500	6.3500
.	0.2559	6.5000
17/64	0.2656	6.7469
.	0.2756	7.0000
9/32	0.2813	7.1438
.	0.2953	7.5000
19/64	0.2969	7.5406
5/16	0.3125	7.9375
.	0.3150	8.0000
21/64	0.3281	8.3344
.	0.3346	8.5000
11/32	0.3438	8.7313
.	0.3543	9.0000
23/64	0.3594	9.1281
.	0.3740	9.5000
3/8	0.3750	9.5250
25/64	0.3906	9.9219
.	0.3937	10.0000
13/32	0.4063	10.3188
.	0.4134	10.5000
27/64	0.4219	10.7156
.	0.4331	11.0000
7/16	0.4375	11.1125
.	0.4528	11.5000
29/64	0.4531	11.5094
15/32	0.4688	11.9063
.	0.4724	12.0000
31/64	0.4844	12.3031
.	0.4921	12.5000
1/2	0.5000	12.7000
.	0.5118	13.0000
33/64	0.5156	13.0969
17/32	0.5313	13.4938
.	0.5315	13.5000
35/64	0.5469	13.8906

INCH		METRIC
Fractionar	Decimal	mm
.	0.5512	14.0000
9/16	0.5625	14.2875
.	0.5709	14.5000
37/64	0.5781	14.6844
.	0.5906	15.0000
19/32	0.5938	15.0813
39/64	0.6094	15.4781
.	0.6102	15.5000
5/8	0.6250	15.8750
.	0.6299	16.0000
41/64	0.6406	16.2719
.	0.6496	16.5000
21/32	0.6563	16.6688
.	0.6693	17.0000
43/64	0.6719	17.0656
11/16	0.6875	17.4625
.	0.6890	17.5000
45/64	0.7031	17.8594
.	0.7087	18.0000
23/32	0.7188	18.2563
.	0.7283	18.5000
47/64	0.7344	18.6531
.	0.7480	19.0000
3/4	0.7500	19.0500
49/64	0.7656	19.4469
.	0.7677	19.5000
25/32	0.7813	19.8438
.	0.7874	20.0000
51/64	0.7969	20.2406
.	0.8071	20.5000
13/16	0.8125	20.6375
.	0.8268	21.0000
53/64	0.8281	21.0344
27/32	0.8438	21.4313
.	0.8465	21.5000
55/64	0.8594	21.8281
.	0.8661	22.0000
7/8	0.8750	22.2250
.	.8858	22.5000
57/64	.89063	22.6219
.	.9055	23.0000
29/32	.90625	23.0188
59/64	.92188	23.4156
.	.9252	23.5000
15/16	.93750	23.8125
.	.9449	24.0000
61/64	.95313	24.2094
.	.9646	24.5000
31/32	.96875	24.6063
.	.9843	25.0000
63/64	.98438	25.0031
1	1.000	25.40
.	1.0039	25.5000
.	1.0236	26.0000
.	1.0433	26.5000
.	1.0630	27.0000
.	1.0827	27.5000
.	1.1024	28.0000
.	1.1220	28.5000
.	1.1417	29.0000
.	1.1614	29.5000
.	1.1811	30.0000
.	1.2205	31.0000
1 1/4	1.2500	31.7500
.	1.2598	32.0000
.	1.2992	33.0000
.	1.3386	34.0000
.	1.3780	35.0000
.	1.4173	36.0000
.	1.4567	37.0000
.	1.4961	38.0000
1 1/2	1.5000	38.1000
.	1.5354	39.0000
.	1.5748	40.0000
.	1.6142	41.0000
.	1.6535	42.0000
.	1.6929	43.0000
.	1.7323	44.0000
1 3/4	1.7500	44.4500
.	1.7717	45.0000
.	1.8110	46.0000
.	1.8504	47.0000

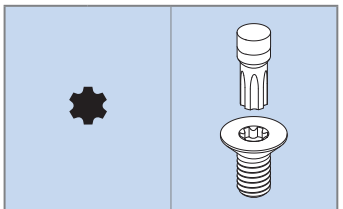
INCH		METRIC
Fractionar	Decimal	mm
.	1.8898	48.0000
.	1.9291	49.0000
.	1.9685	50.0000
2	2.0000	50.8000
.	2.0079	51.0000
.	2.0472	52.0000
.	2.0866	53.0000
.	2.1260	54.0000
.	2.1654	55.0000
.	2.2047	56.0000
.	2.2441	57.0000
2 1/4	2.2500	57.1500
.	2.2835	58.0000
.	2.3228	59.0000
.	2.3622	60.0000
.	2.4016	61.0000
.	2.4409	62.0000
.	2.4803	63.0000
2 1/2	2.5000	63.5000
.	2.5197	64.0000
.	2.5591	65.0000
.	2.5984	66.0000
.	2.6378	67.0000
.	2.6772	68.0000
.	2.7165	69.0000
2 3/4	2.7500	69.8500
.	2.7559	70.0000
.	2.7953	71.0000
.	2.8346	72.0000
.	2.8740	73.0000
.	2.9134	74.0000
.	2.9528	75.0000
.	2.9921	76.0000
3	3.0000	76.2000
.	3.0315	77.0000
.	3.0709	78.0000
.	3.1102	79.0000
.	3.1496	80.0000
.	3.1890	81.0000
.	3.2283	82.0000
.	3.2677	83.0000
.	3.3071	84.0000
.	3.3465	85.0000
.	3.3858	86.0000
.	3.4252	87.0000
.	3.4646	88.0000
3 1/2	3.5000	88.9000
.	3.5039	89.0000
.	3.5433	90.0000
.	3.5827	91.0000
.	3.6220	92.0000
.	3.6614	93.0000
.	3.7008	94.0000
.	3.7402	95.0000
.	3.7795	96.0000
.	3.8189	97.0000
.	3.8583	98.0000
.	3.8976	99.0000
.	3.9370	100.0000
4	4.0000	101.6000
.	4.3307	110.0000
4 1/2	4.5000	114.3000
.	4.7244	120.0000
5	5.0000	127.0000
.	5.1181	130.0000
.	5.5118	140.0000
.	5.9055	150.0000
6	6.0000	152.4000
.	6.2992	160.0000
.	6.6929	170.0000
.	7.0866	180.0000
.	7.4803	190.0000
.	7.8740	200.0000
8	8.0000	203.2000
.	9.8425	250.0000
10	10.0000	254.0000
20	20.0000	508.0000
30	30.0000	762.0000
40	40.0000	1016.000
60	60.0000	1524.000
80	80.0000	2032.000
100	100.0000	2540.000

Surub TX



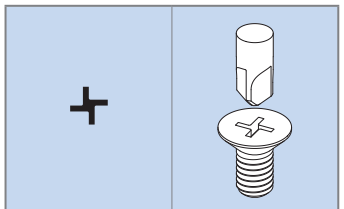
	mm
TX 1	0,84
TX 2	0,94
TX 3	1,12
TX 4	1,30
TX 5	1,37
TX 6	1,65
TX 7	1,97
TX 8	2,30
TX 9	2,48
TX 10	2,72
TX 15	3,26
TX 20	3,84
TX 25	4,40
TX 27	4,96
TX 30	5,49
TX 40	6,60
TX 45	7,77
TX 50	8,79
TX 55	11,17
TX 60	13,20
TX 70	15,49

Surub TX



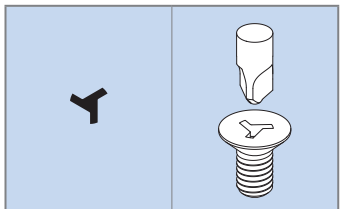
	mm
1 IP	0,84
2 IP	0,95
3 IP	1,13
4 IP	1,29
5 IP	1,41
6 IP	1,69
7 IP	1,97
8 IP	2,29
9 IP	2,48
10 IP	2,72
15 IP	3,25
20 IP	3,84
25 IP	4,39
27 IP	4,95
30 IP	5,49
40 IP	6,60
45 IP	7,77
50 IP	8,79
55 IP	11,16
60 IP	13,20
70 IP	15,48

Surub TQ



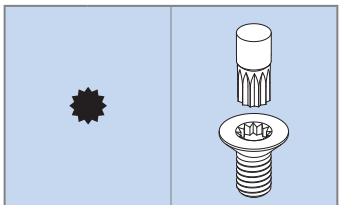
	mm
0	0,43
1	0,43
2	0,43
3	0,48
4	0,56
5	0,63
6	0,71
8	0,84
10	0,96
1/4″	1,27
5/16″	1,60
3/8″	1,90
7/16″	2,23
1/2″	2,54

Surub TW



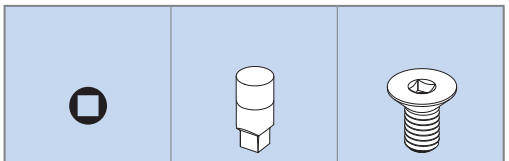
	mm
0	0,45
1	0,57
2	0,75
3	0,95
4	1,08
5	1,23
6	1,54
7	1,87
8	2,17
9	2,48
10	2,78

Surub ZX



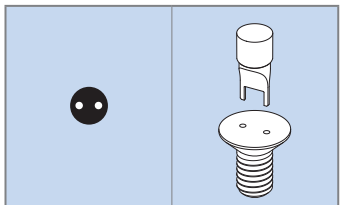
M 4	3,83
M 5	4,80
M 6	6,00
M 8	7,20
M 10	9,60
M 12	11,41
M 14	13,22
M 16	15,63
M 18	16,85
M 20	19,25

Surub SQ



00	1,27	1,4
0	1,78	2
1	2,31	2,5
2	2,85	3,1
3	3,37	3,7
4	4,84	5,1

Surub SP



	mm
4	1,52
6	2,41
8	2,79
10	3,30

 M	TIPUL BOLTULUI.									 mm
	3.6	4.6	5.6	5.8	6.8	8.8	9.8	10.9	12.9	
	moment in Nm									
M 1.6	0.05	0.07	0.09	0.11	0.14	0.18	0.21	0.26	0.31	3.2
M 2	0.11	0.14	0.18	0.24	0.28	0.38	0.42	0.53	0.63	4
M 2.5	0.22	0.29	0.36	0.48	0.58	0.78	0.87	1.09	1.31	5
M 3	0.38	0.51	0.63	0.84	1.01	1.35	1.52	1.9	2.27	5.5
M 4	0.71	0.95	1.19	1.59	1.91	2.54	2.86	3.57	4.29	7
M 5	1.71	2.28	2.85	3.8	4.56	6.09	6.85	8.56	10.3	8
M 6	2.94	3.92	4.91	6.54	7.85	10.5	11.8	14.7	17.7	10
M 8	7.11	9.48	11.9	15.8	19	25.3	28.4	35.5	42.7	13
M 10	14.3	19.1	23.8	31.8	38.1	50.8	57.2	71.5	85.8	17
M 12	24.4	32.6	40.7	54.3	65.1	86.9	97.7	122	147	19
M 14	39	52	65	86.6	104	139	156	195	234	22
M 16	59.9	79.9	99.8	133	160	213	240	299	359	24
M 18	82.5	110	138	183	220	293	330	413	495	27
M 20	117	156	195	260	312	416	468	585	702	30
M 22	158	211	264	352	422	563	634	792	950	32
M 24	202	270	337	449	539	719	809	1011	1213	36
M 27	298	398	497	663	795	1060	1193	1491	1789	41
M 30	405	540	675	900	1080	1440	1620	2025	2430	46
M 33	550	734	917	1223	1467	1956	2201	2751	3301	50
M 36	708	944	1180	1573	1888	2517	2832	3540	4248	55
M 39	919	1226	1532	2043	2452	3269	3678	4597	5517	60
M 42	1139	1518	1898	2530	3036	4049	4555	5693	6832	65
M 45	1425	1900	2375	3167	3800	5067	5701	7126	8551	70
M 48	1716	2288	2860	3813	4576	6101	6864	8580	10296	75
M 52	2210	2947	3684	4912	5895	7859	8842	11052	13263	80
M 56	2737	3650	4562	6083	7300	9733	10950	13687	16425	85
M 60	3404	4538	5673	7564	9076	12102	13614	17018	20422	90
M 64	4100	5466	6833	9110	10932	14576	16398	20498	24597	95
M 68	4963	6617	8271	11029	13234	17646	19851	24814	29777	100

Capete chei tubulare



1/4" - 188/2 6p



1/4"- 188/2F12p



3/8"- 238/1L12p



1/2" - 190/1 12p



3/4"- 197/1 12p



1" - 199/1 6p

dim.	NORMAL SCURT 6 LATURI	NORMAL SCURT 12 LATURI	NORMAL LUNG 6 LATURI	NORMAL LUNG 12 LATURI	NORMAL ARTICULAT 12 LATURI	IMPACT SCURT 6 LATURI	IMPACT LUNG 6 LATURI	NORMAL SCURT 6 LATURI	NORMAL SCURT 12 LATURI	NORMAL LUNG 6 LATURI	NORMAL LUNG 12 LATURI	VDE SCURT 6 LATURI	IMPACT SCURT 6 LATURI	IMPACT LUNG 6 LATURI	NORMAL ARTICULAT 12 LATURI	IMPACT ARTICULAT SCURT 6 LATURI	IMPACT ARTICULAT LUNG 6 LATURI	NORMAL SCURT 6 LATURI	NORMAL LUNG 12 LATURI	NORMAL SCURT 12 LATURI	VDE SCURT 6 LATURI	VDE LUNG 6 LATURI	IMPACT SCURT 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT SCURT 12 LATURI	IMPACT SCURT SPECIAL	IMPACT LUNG SPECIAL	IMPACT SCURT 4 LATURI	IMPACT ARTICULAT SCURT 6 LATURI	IMPACT ARTICULAT LUNG 6 LATURI
	1/4"							3/8"										1/2"													
3,2	618682		618697	618698																											
4	600815	616857	616881			04M04	04M04L																								
4,5	600816	616858	616882																												
5	600817	616859	616883			04M05	04M05L																								
5,5	600818	616860	616884																												
6	600819	616861	616885		620790	04M06	04M06L	605322	617122				06M06	06M06L																	
7	600820	616862	616886		620791	04M07	04M07L	605323	616905		616936		06M07	06M07L																	
8	600821	616863	616887		620792	04M08	04M08L	605324	616906	612036	616937		612060	06M08L				605307			617803		08M08	08M08L							
9	600822	616864	616888		620793	04M09	04M09L	605325	616907	612037	616938		612061	06M09L		UB06M9	UB06M9L	601155			621593		08M09	08M09L							
10	600823	616865	616889		620794	04M10	04M10L	605326	616908	612038	616939	619161	612062	06M10L	619793	UB06M10	UB06M10L	600851	610762	603812	612195	619104	603962	607918		618925	618940			
11	600824	616866	616890		620795	04M11	04M11L	605327	616909	612039	616940	619162	612063	06M11L	619794	UB06M11	UB06M11L	600852	610763	603813	612196	619105	603963	607919		619144	619146			
12	603130	616867	616891		620796	04M12	04M12L	605328	616910	612040	616941	619163	612064	06M12L	619795	UB06M12	UB06M12L	600853	610764	603814	612197	619106	603964	607920		619145	619147			
13	600825	616868	616892		620797	04M13	04M13L	605329	616911	612041	616942	619164	612065	06M13L	619796	UB06M13	UB06M13L	600854	610765	603815	612198	619107	603965	607921		618926	618941		UB08M13	UB08M13L
14	603131	616869	616893			04M14	04M14L	605330	616912	612042	616943	619165	612066	06M14L	619797	UB06M14	UB06M14L	600855	610766	603816	612199	619108	603966	607922		618927	618942		UB08M14	UB08M14L
15							04M15L	605331	616913	612043	616944		612067	06M15L	619798	UB06M15	UB06M15L	600856	610767	603817	621594	619109	603967	607923		618928	618943		UB08M15	UB08M15L
16								605332	616914	612044	616945		612068	06M16L	619799	UB06M16	UB06M16L	600857	610768	603818	621595	619110	603968	607924		618929	618944		UB08M16	UB08M16L
17								605333	616915	612045	616946	619166	612069	06M17L	619800	UB06M17	UB06M17L	600858	610769	603819	612200	619111	603969	607925		618930	618945	616625	UB08M17	UB08M17L
18								605334	616916	612046	616947		612070	06M18L	619801	UB06M18	UB06M18L	600859	610770	603820	621596	619112	609399	609401		618931	618946		UB08M18	UB08M18L
19								605335	616917	612047	616948	619167	612071	0612M19L	619802	UB06M19	UB06M19L	600860	610771	603821	612201	619113	603970	607926	081M19DH	618932	618947	616626	UB08M19	UB08M19L
20								605336	616918	612048	616949		612072	06M20L		UB06M20	UB06M20L	600861	610772	603822	621597	619114	08M20	08M20L	08M20DH				UB08M20	UB08M20L
21								605337	616919	612049	616950		612073	06M21L		UB06M21	UB06M21L	600862	610773	603823	621598	619115	603971	607927	08M21DH	618933	618948		UB08M21	UB08M21L
22								605338	616920	612050	616951	619168	612074	06M22L		UB06M22	UB06M22L	600863	610774	603824	612202	621604	603972	607928	08M22DH	618934	618949	616627	UB08M22	UB08M22L
23									616921		616952		06M23	06M23L				600864	610775	603825	621599		603973	607929	08M23DH	618935	618950		UB08M23	UB08M23L
24									616922		616953							600865	610776	603826	612203	621605	603974	607930	08M24DH	618936	618951	616628	UB08M24	UB08M24L
25																		600866					08M25	08M25L	08M25DH	618937	618952			
26																		600867			621600		08M26	08M26L	08M26DH	618938	618953			
27																		600868	610777	603827	617804		603975	607931	0817M27DH	618939	618954			
28																		600869			621601		609400	609402	08M28DH					
29																		610156					08M29	08M29L	08M29DH					
30																		600871	610778	603828	621602		603976	607932	0819M30DH			616629		
31																															
32																		600872	610779	603829	621603		605548	607933	08M32DH			616655		
33																							08M33	08M33L	08M33DH					
34																							08M34	08M34L	08M34DH					
35																							08M35	08M35L	0822M35DH					
36																				612722			08M36	08M36L	08M36DH					
37																							08M37	08M37L	08M37DH					
38																							08M38	08M38L	0824M38DH					
39																															
40																															
41																															
42																															
43																															
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185																															
190																															
195																															
200																															
210																															
215																															
225																															
230																															
235																															



3/8" - 230/4 6p | 1/2" - 231/4 6p | 1/2" - 231/4NS | 1/2" SD MAGNETIC | 5/8" SD long | 3/4" - 232/4 6p | 3/4" - 232/4L6p | 1" SD 12p | 1" - 233/4L6p | 1,1/2" - 234/4 6p

dim.	NORMAL SCURT 6 LATURI	NORMAL SCURT 12 LATURI	NORMAL SCURT 6 LATURI	NORMAL SCURT 12 LATURI	NORMAL LUNG 6 LATURI	IMPACT SCURT 6 LATURI	IMPACT SCURT 12 LATURI	IMPACT LUNG 6 LATURI	IMPACT EXTRA-LUNG 6 LATURI	IMPACT SCURT 8 LATURI	IMPACT LUNG 8 LATURI	IMPACT ARTICULAT SCURT 6 LATURI	IMPACT ARTICULAT LUNG 6 LATURI	NORMAL SCURT 6 LATURI	NORMAL LUNG 6 LATURI	IMPACT SCURT 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT SCURT 12 LATURI	IMPACT SCURT 8 LATURI	IMPACT LUNG 8 LATURI	IMPACT EXTRA-LUNG 6 LATURI	IMPACT SCURT 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT SCURT 12 LATURI	IMPACT LUNG 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT LUNG 6 LATURI
	5/8"		3/4"											1"									1.1/2"			2.1/2"		3.1/2"		5 SPLINE	
3,2																															
4																															
4,5																															
5																															
5,5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															
13	10M13	10M13L				12M13		12M13L																							
14	10M14	10M14L				12M14		12M14L																							
15	10M15	10M15L				12M15		12M15L																							
16	10M16	10M16L				12M16		12M16L																							
17	10M17	10M17L				603980		607934				UB12M17	UB12M17L																		
18	10M18	10M18L				12M18		12M18L				UB12M18	UB12M18L																		
19	1012M19	1012M19L	619698			603981	1212M19DH	607935				UB12M19	UB12M19L			1612M19	1612M19L	1612M19DH											9512M19	9512M19L	
20	10M20	10M20L				12M20	12M20DH	12M20L								16M20	16M20L	16M20DH											95M20	95M20L	
21	10M21	10M21L				603982	12M21DH	607936				UB12M21	UB12M21L			16M21	16M21L	1621DH											95M21	95M21L	
22	10M22	10M22L	602723	618666	610797	603983	12M22DH	607937				UB12M22	UB12M22L			615195	616771	16M22DH											95M22	95M22L	
23	10M23	10M23L	602724	618667	610798	12M23	12M23DH	12M23L								16M26	16M26L	16M23DH											95M23	95M23L	
24	10M24	10M24L	602725	618668	610799	603984	12M24DH	607938				UB12M24	UB12M24L			615196	616772	16M24DH											95M24	95M24L	
25	10M25	10M25L				12M25	12M25DH	12M25L								16M25	16M25L	16M25DH											95M25	95M25L	
26	10M26	10M26L	602726	618669	610800	12M26	12M26DH	12M26L				UB12M26	UB12M26L			16M26	16M26L	16M26DH											95M26	95M26L	
27	1017M27	1017M27L	602727	618670	610801	603985	1217M27DH	607939	25090027			UB12M27	UB12M27L			615197	616773	1617M27DH				26090027							9517M27	9517M27L	
28	10M28	10M28L	602728	618671	610802	609403	12M28DH	609404								16M28	16M28L	16M28DH											95M28	95M28L	
29	10M29	10M29L	619702	619703		12M29	12M29DH	12M29L								16M29	16M29L	16M29DH											95M29	95M29L	
30	1019M30	1019M30L	602729	618672	610803	603986	1219M30DH	607940	25090030			UB12M30	UB12M30L			615198	616774	1619M30DH				26090030							9519M30	9519M30L	
31						12M31	12M31DH	12M31L								16M31	16M31L	16M31DH											95M31	95M31L	
32	10M32	10M32L	602730	618673	610804	603987	12M32DH	607941	25090032			UB12M32	UB12M32L			615199	616775	16M32DH				26090032		24M32L	24M32DH				95M32	95M32L	
33	10M33	10M33L				603988	12M33DH	607942	25090032							615200	616776	16M33DH					24M33	24M33L	24M33DH				95M33	95M33L	
34	10M34	10M34L	602731	618674	610805	12M34	12M34DH	12M34L				UB12M34	UB12M34L			615201	616777	16M34DH					24M34	24M34L	24M34DH				94M34	94M34L	
35	1022M35	1022M35L	619701			1222M35	1222M35DH	1222M35L		1222M35DS	1222M35LDS	UB12M35	UB12M35L			1622M35	1622M35L	1622M35DH	1622M35DS	1622M35LDS			2422M35	2422M35L	2422M35DH				9522M35	9522M35L	
36	10M36	10M36L	602732	618675	610806	603989	12M36DH	607943				UB12M36	UB12M36L			615202	616778	16M36DH					24M36	24M36L	24M36DH				95M36	95M36L	
37	10M37	10M37L				12M37	12M37DH	12M37L								16M37	16M37L	16M37DH					24M37	24M37L	24M37DH				95M37	95M37L	
38	1024M38	1024M38L	602733	618676	610807	1224M38	1224M38DH	1224M38L		1224M38DS	1224M38LDS	UB12M38	UB12M38L			615203	616779	1624M38DH	1624M38DS	1624M38LDS			2424M38	2424M38L	2424M38DH				9524M38	9524M38L	
39						12M39	12M39DH	12M39L								16M39	16M39L	16M39DH					24M39	24M39L	24M39DH				95M39	95M39L	
40						12M40	12M40DH	12M40L								16M40	16M40L	16M40DH					24M40	24M40L	24M40DH				95M40	95M40L	
41			602734	618677	610808	603990	1226M41DH	607944		1226M41DS	1226M41LDS	UB12M41	UB12M41L			616204	616780	1626M41DH	1626M41DS	1626M41LDS			2426M41	2426M41L	2426M41DH	4026M41	4026M41L		9526M41	9526M41L	
42						12M42	12M42DH	12M42L								615205	616781	16M42DH					24M42	24M42L	24M42DH	40M42	40M42L		95M42	95M42L	
43						1227M43	1227M43DH	12M43L		1227M43DS	1227M43LDS					1627M43	1627M43L	1627M43DH	1627M43DS	1627M43LDS			2427M43	2427M43L	2427M43DH	4027M43	4027M43L		9527M43	9527M43L	
44						12M44	12M44DH	12M44L								16M44	16M44L	16M44DH					24M44	24M44L	24M44DH	40M44	40M44L		95M44	95M44L	
45						12M45	12M45DH	12M45L								16M45	16M45L	16M45DH					24M45	24M45L	24M45DH	40M45	40M45L		95M45	95M45L	
46			602735	618678	610809	603991	1229M46DH	607945		1229M46DS	1229M46LDS	UB12M46	UB12M46L	603096		615206	616782	1629M46DH	1629M46DS	1629M46LDS			2429M46	2429M46L	2429M46DH	4029M46	4029M46L		9529M46	9529M46L	
47						12M47	12M47DH	12M47L								16M47	16M47L	16M47DH					24M47	24M47L	24M47DH	40M47	40M47L		95M47	95M47L	
48						12M48	12M48DH	12M48L								16M48	16M48L	16M48DH					24M48	24M48L	24M48DH	40M48	40M48L		95M48	95M48L	
49						1231M49	1231M49DH	1231M49L								1631M49	1631M49L	1631M49DH					2431M49	2431M49L	2431M49DH	4031M49	4031M49L		9531M49	9531M49L	
50			602736	618679	610810	12M50	12M50DH	12M50L						603097		615207	616783	16M50DH					24M50	24M50L	24M50DH	40M50	40M50L		95M50	95M50L	
51						1232M51	1232M51DH	1232M51L								1632M51	1632M51L	1632M51DH	1632M51DS	1632M51LDS			2432M51	2432M51L	2432M51DH	4032M51	4032M51L		9532M51	9532M51L	
52						12M52	12M52DH	12M52L								16M52	16M52L	16M52DH					24M52	24M52L	24M52DH	40M52	40M52L		95M52	95M52L	
54						1234M54	1234M54DH	1234M54L								1634M54	1634M54L	1634M54DH	1634M54DS	1634M54LDS			2434M54	2434M54L	2434M54DH	4034M54	4034M54L		9534M54	9534M54L	
55			617627	618680	618700	12M55	12M55DH	12M55L						603098		615208	616784	16M55DH					24M55	24M55L	24M55DH	40M55	40M55L		95M55	95M55L	
56						12M56	12M56DH	12M56L								16M56	16M56L	16M56DH					24M56	24M56L	24M56DH	40M56	40M56L		95M56	95M56L	
57						1236M57	1236M57DH	1236M57L								1636M57	1636M57L	1636M57DH	1636M57DS	1636M57LDS			2436M57	2436M57L	2436M57DH	4036M57	4036M57L		9536M57	9536M57L	
58						12M58	12M58DH	12M58L								16M58	16M58L	16M58DH					24M58	24M58L	24M58DH	40M58	40M58L		95M58	95M58L	
59						1237M59	1237M59DH	1237M59L								1637M59	1637M59L	1637M59DH					2437M59	2437M59L	2437M59DH	4037M59	4037M59L		9537M59	9537M59L	
60			603135	618681	610811	12M60	12M60DH	12M60L						603099		615209	616785	16M60DH					24M60	24M60L	24M60DH	40M60	40M60L		95M60	95M60L	
61						12M61	12M61DH	12M61L								16M61	16M61L	16M61DH					24M61	24M61L	24M61DH	40M61	40M61L		95M61	95M61L	
62																1639M62	1639M62L	1639M62DH					2439M62	2439M62L	2439M62DH	4039M62	4039M62L		9539M62	9539M62L	
65														603100	618699	615210	616786	1641M65DH					2441M65	2441M65L	2441M65DH	4041M65	4041M65L		9541M65	9541M65L	
67																1642M67	1642M67L	1642M67DH					2442M67	2442M67L		4042M67	4042M67L		9542M67	9542M67L	
70														603101	9249083	615211	616787	1644M70DH					2444M70	2444M70L	2444M70DH	4044M70	4044M70L		9544M70	9544M70L	
73																1646M73	1646M73L	1646M73DH					2446M73	2446M73L	2446M73DH	4046M73	4046M73L		9546M73	9546M73L	
75														603102	9249093	615212	616788	1647M75DH					2447M75	2447M75L	2447M75DH	4047M75	4047M75L		9547M75	9547M75L	
76																1648M76	1648M76L	1648M76DH					2448M76	2448M76L	2448M76DH	4048M76	4048M76L		9548M76	9548M76L	
77																16M77	16M77L	16M77DH					24M77	24M77L	24M77DH	40M77	40M77L		95M77	95M77L	
80														603103	9249103	615213	616789	16M80DH					616790	24M80L	24M80DH	40M80	40M80L		95M80	95M80L	
85																16M85	16M85L	16M85DH					616791	24M85L	24M85DH	40M85	40M85L				
86																1654M86	1654M86L	1654M86DH					2454M86	2454M86L	2454M86DH	4054M86	4054M86L				
90																16M90	16M90L	16M90DH					616793	24M90L	24M90DH	40M90	40M90L				
95																1660M95	1660M95L	1660M95DH					616794	2460M95L	2460M95DH	4060M95	4060M95L				
100																1663M100	1663M100L	1663M100DH					616795	2463M100L	2463M100DH	4063M100	4063M100L	5663M100	5663M100L		
105																1666M105	1666M105L	1666M105DH					616796	2466M105L	2466M105DH	4066M105	4066M105L	5666M105	5666M105L		
110																1669M110	1669M110L	1669M110DH					616797	2469M110L	2469M110DH	4069M110	4069M110L	5669M110	5669M110L		
115																16M115	16M115L	16M115DH					616798	24M115L	24M115DH	40M115	40M115L	56M115	56M115L		
120																							616799	24M120L	24M120DH	40M120	40M120L	56M120	56M120L		
125																							24M125	24M125L	24M125DH	40M125	40M125L	56M125	56M125L		
130																							2482M130	2482M130L		4082M130	4082M130L	5682M130	5682M130L		
135																										40M135	40M135L	56M135	56M135L		
140																										4088M140	4088M140L	5688M140	5688M140L		
145																										40M145	40M145L	56M145	56M145L		
150																										4094M150	4094M150L	5694M150	5694M150L		
155																										40M155	40M155L	56M155	56M155L		
160																										40M160	40M160L	56M160	56M160L		
165																										40104M165	40104M165L	56104M165	56104M165L		
170																										40M170	40M170L	56M170	56M170L		
175																										40110M175	40110M175L	56110M175	56110M175L		
180																										40M180	40M180L	56M180	56M180L		
185																										40116M185	40116M185L	56116M185	56116M185L		
190																										40M190	40M190L	56M190	56M190L		
195																										40122M195	40122M195L	56122M195	56122M195L		
200																										40125M200	40125M200L	56125M200	56125M200L		
210																										40132M210	40132M210L	56132M210	56132M210L		
215																										40M125	40M125L	56M125	56M125L		
225																										40142M225	40142M225L	56142M225	56142M225L		
230																										40M230	40M230L	56M230	56M230L		
235																										40M235	40M235L	56M235	56M235L		

dim.	NORMAL SCURT 6 LATURI	NORMAL SCURT 12 LATURI	NORMAL LUNG 6 LATURI	NORMAL LUNG 12 LATURI	NORMAL ARTICULAT 12 LATURI	IMPACT SCURT 6 LATURI	IMPACT LUNG 6 LATURI	NORMAL SCURT 6 LATURI	NORMAL SCURT 12 LATURI	NORMAL LUNG 6 LATURI	NORMAL LUNG 12 LATURI	VDE SCURT 6 LATURI	IMPACT SCURT 6 LATURI	IMPACT LUNG 6 LATURI	NORMAL ARTICULAT 12 LATURI	IMPACT ARTICULAT SCURT 6 LATURI	IMPACT ARTICULAT LUNG 6 LATURI	NORMAL SCURT 6 LATURI	NORMAL LUNG 12 LATURI	NORMAL SCURT 12 LATURI	VDE SCURT 6 LATURI	VDE LUNG 6 LATURI	IMPACT SCURT 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT SCURT 12 LATURI	IMPACT SCURT SPECIAL	IMPACT LUNG SPECIAL	IMPACT SCURT 4 LATURI	IMPACT ARTICULAT SCURT 6 LATURI	IMPACT ARTICULAT LUNG 6 LATURI
3/16"	618683	616870	616894		620798	0403	0403L																								
7/32"	618684	616871	616895	618694	620799	04035	04035L																								
1/4"	618685	616872	616896	TMU81A	620800	0404	0404L		616923		616954																				
9/32"	618686	616873	616897	618695	620801	04045	04045L																								
5/16"	618687	616874	616898	TMU101A	620802	0405	0405L		616924		616955		FS10B					610105						618709	618729						
11/32"	618688	616875	616899	618696	620803	04055	04055L																								
3/8"	618689	616876	616900	TMU121A	620804	0406	0406L	612051	616925		616956		FS12B	0606L		UB0606	UB0606L	610106	610780	609366				618710	618730						
13/32"	618690	616877	616901																												
7/16"	618691	616878	616902	TMU141A	620805	0407	0407L	612052	616926		616957		FS14B	0607L	FU28B	UB0607	UB0607L	610107	610781	609367				618711	618731						
1/2"	618692	616879	616903	TMU161A	620806	0408	0408L	612053	616927		616958		FS16B	0608L		UB0608	UB0608L	610108	610782	609368				618712	618732						
9/16"	618693	616880	616904	TMU181A		0409	0409L	612054	616928		616959		FS18B	0609L		UB0609	UB0609L	610109	610783	609369				618713	618733					UB0809	UB0809L
19/32"																			610784	609370											
5/8"								612055	616929		616960		FS20B	0610L		UB0610	UB0610L	610110	610785	609371				618714	618734					UB0810	UB0810L
11/16"								612056	616930		616961		FS22B	0611L		UB0611	UB0611L	610111	610786	609372				618715	618735					UB0811	UB0811L
3/4"								612057	616931		616962		FS24B	0612M19L		UB0612	UB0612L	610112	610787	609373				618716	618736	0812M19DH				UB0812	UB0812L
25/32"																			610788	609374											
13/16"								612058	616932		616963		FS26B	0613L		UB0613	UB0613L	610113	610789	609375				618712	618737	0813DH				UB0813	UB0813L
7/8"								612059	616933		616964		FS28B	0614L		UB0614	UB0614L	610114	610790	609376				618718	618738	0814DH				UB0814	UB0814L
15/16"									616934		616965		FS30B					610115	610791	609377				618719	618739	0815DH				UB0815	UB0815L
1"									616935				FS30B					610116	610792	609378				618720	618740	0816DH					
1.1/16"																		610117	610793	609379				618721	618741	0817M27DH					
1.1/8"																		610118	610794	609380				618722	618742	0818DH					
1.3/16"																		610119	610795	609381				618723	618743	0819M30DH					
1.1/4"																		610120	610796	609382				618724	618744	0820DH					
1.5/16"																								618725	618745	0821DH					
1.3/8"																								618726	618746	0822M35DH					
1.7/16"																								618727	618747	0823DH					
1.1/2"																								618728	618748	0824M38DH					
1.9/16"																															
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dim.	NORMAL SCURT 6 LATURI	NORMAL SCURT 12 LATURI	NORMAL SCURT 6 LATURI	NORMAL SCURT 12 LATURI	NORMAL LUNG 6 LATURI	IMPACT SCURT 6 LATURI	IMPACT SCURT 12 LATURI	IMPACT LUNG 6 LATURI	IMPACT EXTRA-LUNG 6 LATURI	IMPACT SCURT 8 LATURI	IMPACT LUNG 8 LATURI	IMPACT ARTICULAT SCURT 6 LATURI	IMPACT ARTICULAT LUNG 6 LATURI	NORMAL SCURT 6 LATURI	NORMAL LUNG 6 LATURI	IMPACT SCURT 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT SCURT 12 LATURI	IMPACT SCURT 8 LATURI	IMPACT LUNG 8 LATURI	IMPACT EXTRA-LUNG 6 LATURI	IMPACT SCURT 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT SCURT 12 LATURI	IMPACT LUNG 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT LUNG 6 LATURI	IMPACT LUNG 6 LATURI
3/16"																														
7/32"																														
1/4"																														
9/32"																														
5/16"																														
11/32"																														
3/8"																														
13/32"																														
7/16"																														
1/2"	1008	1008L				1208		1208L																						
9/16"	1009	1009L				1209		1209L																						
19/32"																														
5/8"	1010	1010L				1210		1210L																						
11/16"	1011	1011L				1211		1211L				UB1211	UB1211L																	
3/4"	1012M19	1012M19L				1212M19	1212M19DH	1212M19L				UB1212	UB1212L			1612M19	1612M19L	1612M19DH										9512M19	9512M19L
25/32"																														
13/16"	1013	1013L				1213	1213DH	1213L				UB1213	UB1213L			1613	1613L	1613DH										9513	9513L
7/8"	1014	1014L	609383		610812	1214	C-7/8	1214L				UB1214	UB1214L			1614	1614L	1614DH										9514	9514L
15/16"	1015	1015L	609384		610813	1215	C-15/16	1215L				UB1215	UB1215L			1615	1615L	1615DH										9515	9515L
1"	1016	1016L	609385		610814	1216	C-1"	1216L				UB1216	UB1216L			1616	1616L	1616DH										9516	9516L
1.1/16"	1017M27	1017M27L	609386		610815	1217M27	C-1"1/16	1217M27L				UB1217	UB1217L			1617M27	1617M27L	1617M27DH										9517M27	9517M27L
1.1/8"	1018	1018L	609387		610816	1218	C-1"1/8	1218L				UB1218	UB1218L			1618	1618L	1618DH										9518	9518L
1.3/16"	1019M30	1019M30L				1219M30	1219M30DH	1219M30L				UB1219	UB1219L			1619M30	1619M30L	1619M30DH										9519M30	9519M30L
1.1/4"	1020	1020L	609388		610817	1220	C-1"1/4	1220L		1220DS	1220LDS	UB1220	UB1220L			1620	1620L	1620DH	1620DS	1620LDS								9520	9520L
1.5/16"	1021	1021L	609389		610818	1221	C-1"5/16	1221L		1221DS	1221LDS	UB1221	UB1221L			1621	1621L	1621DH	1621DS	1621LDS		2421	2421L	2421DH				9521	9521L
1.3/8"	1022M35	1022M35L	609390		610819	1222M35	C-1"3/8	1222M35L		1222M35DS	1222M35LDS	UB1222	UB1222L			1622M35	1622M35L	1622M35DH	1622M35DS	1622M35LDS		2422M35	2422M35L	2422M35DH				9522M35	9522M35L
1.7/16"	1023	1023L	609391		610820	1223	C-1"7/16	1223L		1223DS	1223LDS	UB1223	UB1223L			1623	1623L	1623DH	1623DS	1623LDS		2423	2423L	2423DH				9523	9523L
1.1/2"	1024M38	1024M38L	609392		610821	1224M38	C-1"1/2	1224M38L		1224M38DS	1224M38LDS	UB1224	UB1224L			1624M38	1624M38L	1624M38DH	1624M38DS	1624M38LDS		2424M38	2424M38L	2424M38DH				9524M38	9524M38L
1.9/16"						1225	1225DH	1225L		1225DS	1225LDS					IM503A	1625L	1625DH	1625DS	1625LDS		2425	2425L	2425DH				9525	9525L
1.5/8"			609393		610822	1226M41	C-1"5/8	1226M41L		1226M41DS	1226M41LDS	UB1226	UB1226L			IM523A	1626M41L	1626M41DH	1626M41DS	1626M41LDS		2426M41	2426M41L	2426M41DH	4026M41	4026M41L		9526M41	9526M41L
1.11/16"			609394		610823	1227M43	1227M43DH	1227M43L		1227M43DS	1227M43LDS					IM543	1627M43L	1627M43DH	1627M43DS	1627M43LDS		2427M43	2427M43L	2427M43DH	4027M43	4027M43L		9527M43	9527M43L
1.3/4"						1228	C-1"3/4	1228L		1228DS	1228LDS					IM653	1628L	1628DH	1628DS	1628LDS		2428	2428L	2428DH	4028	4028L		9528	9528L
1.13/16"			609395		610824	1229M46	C-1"13/16	1229M46L		1229M46DS	1229M46LDS	UB1229	UB1229L			IM583	1629M46L	1629M46DH	1629M46DS	1629M46LDS		2429M46	2429M46L	2429M46DH	4029M46	4029M46L		9529M46	9529M46L
1.7/8"			609396		610825	1230	C-1"7/8	1230L		1230DS	1230LDS					IM603	1630L	1630DH	1630DS	1630LDS		2430	2430L	2430DH	4030	4030L		9530	9530L
1.15/16"						1231M49	1231M49DH	1231M49L								IM623	1631M49L	1631M49DH				2431M49	2431M49L	2431M49DH	4031M49	4031M49L		9531M49	9531M49L
2"			609397		610826	1232M51	C-2"	1232M51L								IM643	1632M51L	1632M51DH	1632M51DS	1632M51LDS		2432M51	2432M51L	2432M51DH	4032M51	4032M51L		9532M51	9532M51L
2.1/16"			609398		610827	1233	1233DH	1233L								IM663	1633L	1633DH				2433	2433L	2433DH	4033	4033L		9533	9533L
2.1/8"						1234M54	1234M54DH	1234M54L								IM683	1634M54L	1634M54DH	1634M54DS	1634M54LDS		2434M54	2434M54L	2434M54DH	4034M54	4034M54L		9534M54	9534M54L
2.3/16"						1235	1235DH	1235L								IM703	1635L	1635DH	1635DS	1635LDS		2435	2435L	2435DH	4035	4035L		9535	9535L
2.1/4"						1236M57	1236M57DH	1236M57L								IM723	1636M57L	1636M57DH	1636M57DS	1636M57LDS		2436M57	2436M57L	2436M57DH	4036M57	4036M57L		9536M57	9536M57L
2.5/16"						1237M59	1237M59DH	1237M59L								IM743	1637M59L	1637M59DH				2437M59	2437M59L	2437M59DH	4037M59	4037M59L		9537M59	9537M59L
2.3/8"						1238	12380H	1238L								IM763	1638L	1638DH	1638DS	1638LDS		2438	2438L	2438DH	4038	4038L		9538	9538L
2.7/16"																IM783	1639M62L	1639M62DH				2439M62	2439M62L	2439M62DH	4039M62	4039M62L		9539M62	9539M62L
2.1/2"																IM803	1640L	1640DH	1640DS	1640LDS		2440	2440L	2440DH	4040	4040L		9540	9540L
2.9/16"																IM823	1641M65L	1641M65DH				2441M65	2441M65L	2441M65DH	4041M65	4041M65L		9541M65	9541M65L
2.5/8"																IM843	1642M67L	1642M67DH				2442M67	2442M67L	2442M67DH	4042M67	4042M67L		9542M67	9542M67L
2.11/16"																IM683	1643L	1643DH				2443	2443L	2443DH	4043	4043L		9543	9543L
2.3/4"																IM883	1644M70L	1644M70DH				2444M70	2444M70L	2444M70DH	4044M70	4044M70L		9544M70	9544M70L
2.13/16"																IM903	1645L	1645DH				2445	2445L	2445DH	4045	4045L		9545	9545L
2.7/8"																IM923	1646M73L	1646M73DH				2446M73	2446M73L	2446M73DH	4046M73	4046M73L		9546M73	9546M73L
2.15/16"																IM943	1647M75L	1647M75DH				2447M75	2447M75L	2447M75DH	4047M75	4047M75L		9547M75	9547M75L
3"																IM963	1648M76L	1648M76DH				2448M76	2448M76L	2448M76DH	4048M76	4048M76L		9548M76	9548M76L
3.1/16"																1649	1649L	1649DH				2449	2449L	2449DH	4049	4049L		9549	9549L
3.1/8"																1650	1650L	1650DH				2450	2450L	2450DH	4050	4050L		9550	9550L
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3.15/16"																1663M100	1663M100L	1663M100DH				2463M100	2463M100L	2463M100DH	4063M100	4063M100L	5663M100	5663M100L		
4"																1664	1664L	1664DH				2464	2464L	2464DH	4064	4064L	5664	5664L		
4.1/16"																1665	1665L	1665DH				2465	2465L	2465DH	4065	4065L	5665	5665L		
4.1/8"																1666M105	1666M105L	1666M105DH				2466M105	2466M105L	2466M105DH	4066M105	4066M105L	5666M105	5666M105L		
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4.1/4"																1668	1668L	1668DH				2468	2468L	2468DH	4068	4068L	5668	5668L		
4.5/16"																1669M110	1669M110L	1669M110DH				2469M110	2469M110L	2469M110DH	4069M110	4069M110L	5669M110	5669M110L		
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5.5/16																											5685M135	5685M135L		
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6.3/8"																									40102	40102L	56102	56102L		
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7.1/4"																									40116M185	40116M185L	56116M185	56116M185L		
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9.1/4"																									40148	40148L	56148	56148L		
10.1/4"																											56164	56164L		

DOCUMENTATIE SUPLIMENTARA



UNIOR - Scule biciclete



UNIOR - Automotive



UNIOR - Scule izolate la 1000 V



UNIOR - Bancuri de lucru modulare



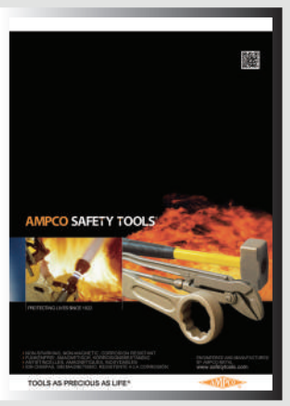
UNIOR - Scule moto



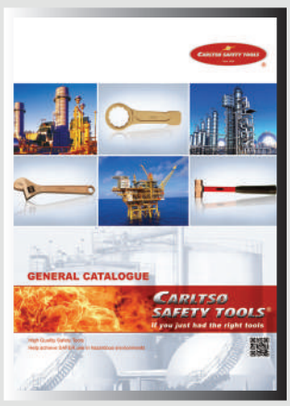
UNIOR - Scule lucru la inaltime



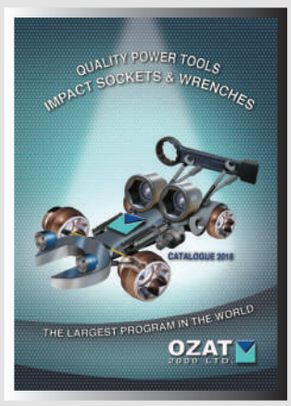
METALLURGICA MINOTTI - Scule antiex



AMPCO - Scule antiex



CARLTSOE - Scule antiex



OZAT - Capete tubulare de impact



TIVOLY - Accesorii scule electrice



TIVOLY - Scule aschietoare



TIVOLY - Catalog aerospatial



DIAGER - Scule aschietoare



DIAGER - Program industrial



BOHRCRAFT - Scule aschietoare

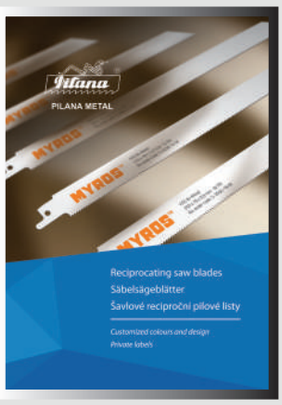
DOCUMENTATIE SUPLIMENTARA



PILANA - Panze panglica



PILANA - Panze bomfaier



PILANA - Panze sabie



PILANA - Fierastraie si accesorii



BIPICO - Panze panglica



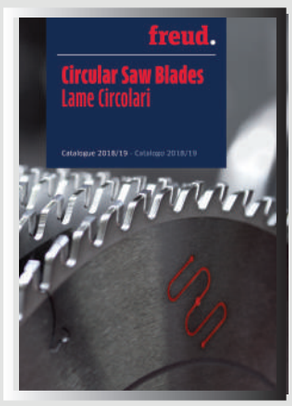
WILPU - Scule debitare si gaurire



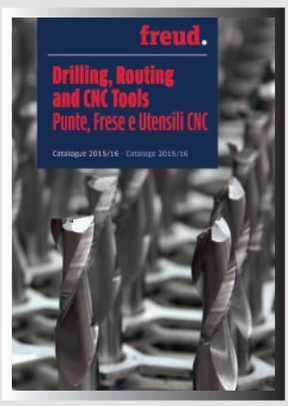
JOSEF HAUNSTETTER - Panze traforaj



FIRST - Panze circulare



FREUD - Panze circulare



FREUD - Burghie, freze cu coada



FREUD - Capete de frezat



FREUD - Cutite si accesorii



PINIE - Scule pentru tamplarie



EDMA - Unelte pentru finisaje



TOVARNA KOS - Topoare



AB TOKOS - Unelte constructii

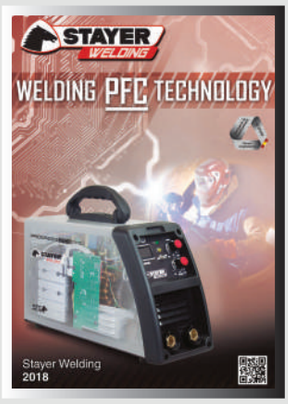
DOCUMENTATIE SUPLIMENTARA



STAYER - Scule electrice profesionale



STAYER - Scule electrice bricolaj



STAYER - Aparate sudura



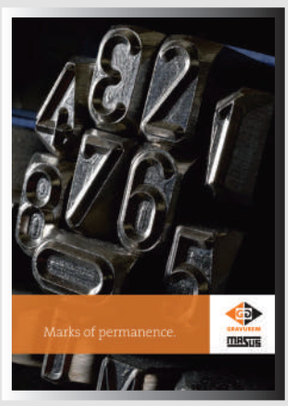
STAYER - Discuri diamantate



KUDOS - Scule hidraulice



NEXUS - Extractoare rulmenti



HEIDENPETER - Poansoane si sabloane



EKLIND - Chei imbus



TOME FETEIRA - Pile



PORT-BAG - Cutii din plastic



HEPCO&BECKER - Genti scule



PLASTICA PANARO - Cutii impermeabile



INSIZE - Instrumente de masura



NORBAR - Chei dinamometrice



BMS - Chei dinamometrice



METRIE - Metre de lemn

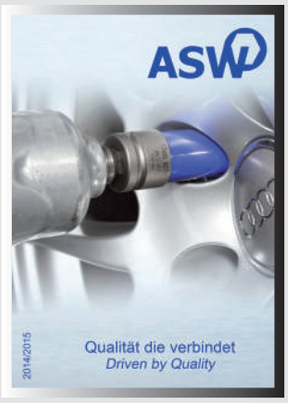
DOCUMENTATIE SUPLIMENTARA



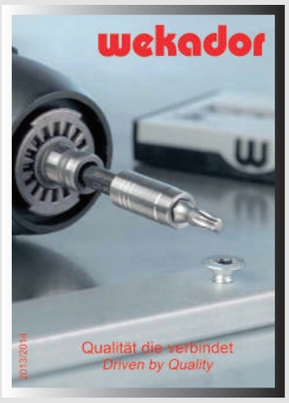
USH - Biti si burghie



COBIT - Biti



ASW - Biti



WEKADOR - Biti



KAPPA - Nivele profesionale



IREGA - Chei reglabile



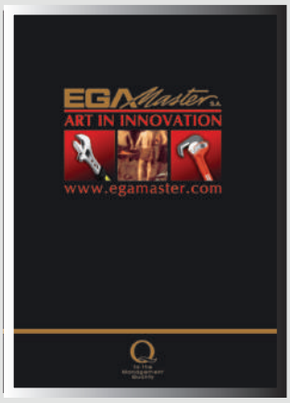
ABSINA - Chei universale



KRONUS - Scule de mana



STAHLWILLE - Scule de mana



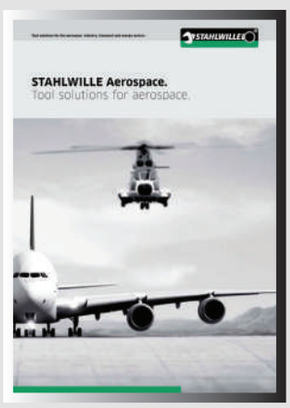
EGAMASTER - Scule de mana



FRIEDRICH - Scule izolate la 1000 V



SAM OUTILLAGE - Scule de mana



STAHLWILLW - Aerospatial



WILPU - Accesorii scule multifunctionale



WGB - Scule de mana



ZBIROVIA - Scule de mana

Index coduri

Capitol 1			
Cod produs	**Articol**	**Dimensiune**	**Pag.**
603316	110/1	4x4,5	18
603317	110/1	4x5	18
603318	110/1	5x5,5	18
600060	110/1	5,5x7	18
600061	110/1	6x7	18
600062	110/1	7x8	18
600064	110/1	8x9	18
600065	110/1	8x10	18
600066	110/1	9x10	18
600067	110/1	9x11	18
600068	110/1	10x11	18
600069	110/1	10x12	18
600070	110/1	10x13	18
600072	110/1	11x13	18
600074	110/1	12x13	18
600075	110/1	12x14	18
600076	110/1	13x14	18
600077	110/1	13x15	18
600078	110/1	13x17	18
600079	110/1	14x15	18
600080	110/1	14x17	18
600081	110/1	15x17	18
600082	110/1	16x17	18
603121	110/1	16x18	18
600083	110/1	17x19	18
600084	110/1	17x22	18
600085	110/1	18x19	18
600086	110/1	19x22	18
600087	110/1	19x24	18
600088	110/1	20x22	18
600089	110/1	21x23	18
600090	110/1	22x24	18
600091	110/1	22x27	18
600092	110/1	24x26	18
600093	110/1	24x27	18
600094	110/1	24x30	18
600095	110/1	25x28	18
600096	110/1	27x29	18
600097	110/1	27x30	18
600098	110/1	27x32	18
600099	110/1	30x32	18
603848	110/1	30x34	18
602593	110/1	30x36	18
600100	110/1	32x36	18
600101	110/1	34x36	18
600102	110/1	36x41	18
605549	110/1	38x42	18
602594	110/1	41x46	18
602595	110/1	46x50	18
605348	110/1	1/4"x5/16"	18
605349	110/1	5/16"x3/8"	18
605350	110/1	3/8"x7/16"	18
605351	110/1	7/16"x1/2"	18
605352	110/1	1/2"x9/16"	18
605353	110/1	9/16"x5/8"	18
605354	110/1	5/8"x11/16"	18
605355	110/1	11/16"x3/4"	18
605356	110/1	13/16"x7/8"	18
605357	110/1	15/16"x1"	18
605358	110/1	1"x1.1/8"	18
605359	110/1	1/16"x1.1/4"	18
611785	111E/2	6x7	18
611786	111E/2	8x9	18
611787	111E/2	8x10	18
611788	111E/2	9x11	18
611789	111E/2	10x11	18
611790	111E/2	12x13	18
611791	111E/2	12x14	18
611792	111E/2	13x14	18
611793	111E/2	13x15	18
611794	111E/2	14x15	18
611795	111E/2	13x17	18
611796	111E/2	14x17	18
611797	111E/2	16x17	18
611798	111E/2	16x18	18
611799	111E/2	17x19	18
611800	111E/2	18x19	18
611801	111E/2	19x22	18
611802	111E/2	20 x 22	19
611803	111E/2	21 x 23	19
611804	111E/2	22 x 24	19
611805	111E/2	24 x 26	19
611806	111E/2	24 x 27	19
611807	111E/2	25 x 28	19
611808	111E/2	27 x 32	19
611809	111E/2	30 x 32	19
600105	110/1CB	6 - 22 / 8	19
600106	110/1CB	6 - 32 / 12	19
600107	110/1CB	6 - 41 / 13	19
611018	110/1CB	6 - 27 / 10	19
605531	110/1CB	1/4" - 1.1/4" / 12	19
602844	110/1CS	6 - 22 / 8	19
615465	110/1CT	6 - 22 / 8	19
615480	CT110	430x275	19
600108	110/1PB	6 - 17 / 6	20
600109	110/1PB	6 - 22 / 8	20
610835	110/1PH	6 - 22 / 8	20
605528	110/1MS	6 - 32 / 12	20
605532	110/1MS	1/4" - 1.1/4" / 12	20
618623	114/2	3.2	20
618624	114/2	3.5	20
618625	114/2	4	20
618626	114/2	4.5	20
618627	114/2	5	20
618628	114/2	5.5	20
618629	114/2	6	20
618630	114/2	7	20
618631	114/2	8	20
618632	114/2	9	20
618633	114/2	10	20
618634	114/2	11	20
618635	114/2	12	20
618636	114/2	13	20
618637	114/2	14	20
619287	114/2PB	3.2 - 14 / 15	21
600262	135/2	27	21
602082	112/2	8x10	21
613222	112/2	10x11	21
605045	112/2	10x12	21
603611	112/2	10x13	21
602083	112/2	11x13	21
602085	112/2	13x15	21
603134	112/2	13x17	21
602086	112/2	14x17	21
602087	112/2	17x19	21
602088	112/2	19x22	21
6506070	895B	6x7	21
6508090	895B	8x9	21
6514150	895B	14x15	21
6516170	895B	16x17	21
6518190	895B	18x19	21
6519220	895B	19x22	21
6519240	895B	19x24	21
6521230	895B	21x23	21
6524270	895B	24x27	21
6525280	895B	25x28	21
6527320	895B	27x32	21
6530340	895B	30x34	21
6532360	895B	32x36	21
6550550	895B	50x55	21
6555600	895B	55x60	21
71120607	7112	6x7	21
71120809	7112	8x9	21
71121011	7112	10x11	21
71121013	7112	10x13	21
71121213	7112	12x13	21
71121317	7112	13x17	21
71121415	7112	14x15	21
71121417	7112	14x17	21
71121617	7112	16x17	21
71121719	7112	17x19	21
71121819	7112	18x19	21
71121922	7112	19x22	21
71122022	7112	20x22	21
71122123	7112	21x23	21
71122224	7112	22x24	21
71122426	7112	24x26	21
71122427	7112	24x27	21
71122528	7112	25x28	21
71122732	7112	27x32	21
71123032	7112	30x32	21
71123236	7112	32x36	21
71123436	7112	34x36	21
71123438	7112	34x38	21
71123641	7112	36x41	21
71124146	7112	41x46	21
71124650	7112	46x50	21
71125055	7112	50x55	21
71125560	7112	55x60	21
71126570	7112	65x70	21
71127580	7112	75x80	21
STRM13	STRM	13	22
STRM14	STRM	14	22
STRM15	STRM	15	22
STRM16	STRM	16	22
STRM17	STRM	17	22
STRM18	STRM	18	22
STRM19	STRM	19	22
STRM21	STRM	21	22
STRM22	STRM	22	22
STRM23	STRM	23	22
STRM24	STRM	24	22
STRM25	STRM	25	22
STRM27	STRM	27	22
STRM28	STRM	28	22
STRM30	STRM	30	22
STRM31	STRM	31	22
STRM32	STRM	32	22
STRM35	STRM	35	22
STRM36	STRM	36	22
STRM38	STRM	38	22
STRM40	STRM	40	22
STRM41	STRM	41	22
STRM42	STRM	42	22
STRM44	STRM	44	22
STRM45	STRM	45	22
STRM46	STRM	46	22
STRM48	STRM	48	22
STRM49	STRM	49	22
STRM50	STRM	50	22
STRM52	STRM	52	22
STRM55	STRM	55	22
STRM56	STRM	56	22
STRM57	STRM	57	22
STRM60	STRM	60	22
715273	7117	36	22
715275	7117	41	22
715276	7117	46	22
715277	7117	50	22
715278	7117	55	22
715279	7117	60	22
715280	7117	65	22
715281	7117	70	22
715282	7117	75	22
615262	117/4	10	22
620207	117/4	12	22
615263	117/4	13	22
615264	117/4	17	22
615265	117/4	19	22
615267	117/4	22	22
615268	117/4	24	22
615269	117/4	27	22
615270	117/4	30	22
615271	117/4	32	22
615272	117/4	34	22
615273	117/4	36	22
615274	117/4	38	22
615275	117/4	41	22
615276	117/4	46	22
615277	117/4	50	22
615278	117/4	55	22
615279	117/4	60	22
615280	117/4	65	22
615281	117/4	70	22
6410507	894B	105	22
6411007	894B	110	22
6411507	894B	115	22
6412007	894B	120	22
6412507	894B	125	22
6413007	894B	130	22
6413507	894B	135	22
611917	250/1	100	23
611918	250/1	150	23
601016	250/1	200	23
601017	250/1	250	23
601018	250/1	300	23
601019	250/1	380	23
605113	250/1	450	23
615148	250/1	600	23
612870	251/4	150	23
612871	251/4	200	23
612872	251/4	250	23
612873	251/4	300	23
617246	250/1ADP	200	23
617247	250/1ADP	250	23
617248	250/1ADP	300	23
617249	250/1ADP	380	23
611978	250.1/1	100	23
611979	250.1/1	150	23
602070	250.1/1	200	23
602071	250.1/1	250	23
602072	250.1/1	300	23
602073	250.1/1	380	23
602069	250.1/1	450	23
615149	250.1/1	600	23
570230106005103	IREGA 99F	(6")	24
570230108005103	IREGA 99F	(8")	24
570230110005103	IREGA 99F	(10")	24
570230112005103	IREGA 99F	(12")	24
570030115009003	IREGA 77F	(15")	24
570030118009003	IREGA 77F	(18")	24
570030124009003	IREGA 77F	(24")	24
8I003 30	IREGA 771-30"	(30")	24
570730108005003	IREGA SWO 77 CE	211	24
571330104005106	IREGA 99XS	115	24
571530106005106	IREGA 99XS	161	24
5711010060053 06(5711010060 05305)	IREGA 92WR	(6")	25
5711010080053 06(5711010080 05305)	IREGA 92WR	(8")	25
5711010100053 06(5711010100 05305)	IREGA 92WR	(10")	25
5711010120053 03(5711010120 05305)	IREGA 92WR	(12")	25
571033106005105	IREGA SWO 99XS	176	25
571033108005105	IREGA SWO 99XS	216	25
570433106008105	IREGA SWO 99	176	25
570433108008105	IREGA SWO 99	216	25
616745	120/1	3,2	26
616746	120/1	4	26
616747	120/1	4,5	26
616748	120/1	5	26
616749	120/1	5,5	26
600357	120/1	6	26
600358	120/1	7	26
600359	120/1	8	26
600360	120/1	9	26
600361	120/1	10	26
600362	120/1	11	26
600363	120/1	12	26
600364	120/1	13	26
600365	120/1	14	26

600366	120/1	15	26
600367	120/1	16	26
600368	120/1	17	26
600369	120/1	18	26
600370	120/1	19	26
600371	120/1	20	26
600372	120/1	21	26
600373	120/1	22	26
600374	120/1	23	26
600375	120/1	24	26
600376	120/1	25	26
600377	120/1	26	26
600378	120/1	27	26
600379	120/1	28	26
600380	120/1	29	26
600381	120/1	30	26
600382	120/1	32	26
607019	120/1	35	26
602601	120/1	36	26
605838	120/1	38	26
602602	120/1	41	26
618514	120/1	46	26
618517	120/1	50	26
616752	120/1	55	26
616753	120/1	60	26
616754	120/1	65	26
616755	120/1	70	26
616756	120/1	75	26
616757	120/1	80	26
618491	120/1	1/4"	26
618492	120/1	5/16"	26
618493	120/1	3/8"	26
618494	120/1	7/16"	26
618495	120/1	1/2"	26
618496	120/1	9/16"	26
618497	120/1	5/8"	26
618498	120/1	11/16"	26
618499	120/1	3/4"	26
618500	120/1	13/16"	26
618501	120/1	7/8"	26
618502	120/1	15/16"	26
618503	120/1	1"	26
618504	120/1	1/16"	26
618505	120/1	1.1/8"	26
618506	120/1	1/4"	26
618507	120/1	1.5/16"	26
618508	120/1	1.3/8"	26
618509	120/1	1.7/16"	26
618510	120/1	1.1/2"	26
618511	120/1	1.5/8"	26
618512	120/1	1.11/16"	26
618513	120/1	1.3/4"	26
618515	120/1	1.13/16"	26
618516	120/1	1.7/8"	26
618518	120/1	2"	26
600414	126E/2	6	26
600415	126E/2	7	26
600416	126E/2	8	26
600417	126E/2	9	26
600418	126E/2	10	26
600419	126E/2	11	26
600420	126E/2	12	26
600421	126E/2	13	26
600422	126E/2	14	26
600423	126E/2	15	26
600424	126E/2	16	26
600425	126E/2	17	26
600426	126E/2	18	26
600427	126E/2	19	26
600428	126E/2	20	26
600429	126E/2	21	26
600430	126E/2	22	26
602089	126E/2	23	26
602090	126E/2	24	26
602091	126E/2	25	27
602092	126E/2	26	27
602093	126E/2	27	27
602094	126E/2	28	27
602095	126E/2	29	27
602096	126E/2	30	27
602097	126E/2	32	27
600383	120/1CB	6 - 22 / 17	27
600384	120/1CB	6 - 32 / 26	27
611019	120/1CB	8 - 22 / 10	27
611020	120/1CB	10 - 30 / 12	27
619398	120/1CB	1/4" - 1.1/4" / 16	27
603709	120/1CS	8 - 19 / 8	27
615475	120/1CT	8 - 22 / 8	27
605537	120/1MS	6 - 22 / 17	27
618651	125/1	5	28
618652	125/1	5.5	28
600414	125/1	6	28
600415	125/1	7	28
600416	125/1	8	28
600417	125/1	9	28
600418	125/1	10	28
600419	125/1	11	28
600420	125/1	12	28
600421	125/1	13	28
600422	125/1	14	28
600423	125/1	15	28
600424	125/1	16	28
600425	125/1	17	28
600426	125/1	18	28
600427	125/1	19	28
600428	125/1	20	28
600429	125/1	21	28
600430	125/1	22	28
602089	125/1	23	28
602090	125/1	24	28
602091	125/1	25	28
602092	125/1	26	28
602093	125/1	27	28
602094	125/1	28	28
602095	125/1	29	28
602096	125/1	30	28
602097	125/1	32	28
603332	125/1	36	28
618566	125/1	41	28
618570	125/1	46	28
600431	125/1CB	6 - 22 / 17	28
602098	125/1CB	6 - 32 / 26	28
605542	125/1CB	1/4" - 1.1/4" / 15	28
611021	125/1CB	8 - 22 / 10	28
611022	125/1CB	10 - 30 / 12	29
603711	125/1CS	8 - 19 / 8	29
611762	129/1	8	29
611763	129/1	10	29
611764	129/1	11	29
611765	129/1	12	29
611766	129/1	13	29
611767	129/1	14	29
611768	129/1	15	29
611769	129/1	16	29
611770	129/1	17	29
611930	129/1	18	29
611771	129/1	19	29
611772	129/1	22	29
611773	129/1	24	29
615478	125/1CT	8 - 22 / 8	29
605539	125/1MS	6 - 22 / 17	29
611776	129/1CB	8 - 24 / 12	29
611775	129/1CS	8 - 19 / 8	29
615474	129/1CT	8 - 22 / 8	30
615464	CT129	470x330	30
620821	178/2	24	30
620822	178/2	27	30
620823	178/2	30	30
620824	178/2	32	30
620825	178/2	36	30
620826	178/2	41	30
620827	178/2	46	30
620828	178/2	50	30
620829	178/2	55	30
620830	178/2	60	30
620831	178/2	65	30
620832	178/2	70	30
620833	178/2	75	30
620834	178/2	80	30
620835	178/2	85	30
620836	178/2	90	30
620837	178/2	95	30
620840	178.1/2	178/2/24-30	30
620841	178.1/2	178/2/32-41	30
620842	178.1/2	178/2/46-55	30
620843	178.1/2	178/2/60-95	30
2502403	250C	24	30
2502703	250C	27	30
2503003	250C	30	30
2503203	250C	32	30
2503603	250C	36	30
2504103	250C	41	30
2504603	250C	46	30
2505003	250C	50	30
2505503	250C	55	30
2506003	250C	60	30
2506503	250C	65	30
2507003	250C	70	30
2507503	250C	75	30
2508003	250C	80	30
2600013	260C	(22-30)	30
2600023	260C	(32-41)	30
2600033	260C	(46-55)	30
2600043	260C	(60-105)	30
2803607	280	36	31
2804607	280	46	31
2805007	280	50	31
2805507	280	55	31
2806007	280	60	31
2806507	280	65	31
605042	179/2	21x22	31
600511	180/1	cotita6x7	31
600512	180/1	cotita8x9	31
600513	180/1	cotita8x10	31
602663	180/1	cotita9x11	31
600514	180/1	cotita10x11	31
602997	180/1	cotita10x12	31
600516	180/1	cotita12x13	31
600517	180/1	cotita12x14	31
600518	180/1	cotita13x15	31
600519	180/1	cotita13x17	31
600520	180/1	cotita14x15	31
600521	180/1	cotita14x17	31
600522	180/1	cotita16x17	31
603123	180/1	cotita16x18	31
600523	180/1	cotita17x19	31
600524	180/1	cotita18x19	31
600525	180/1	cotita19x22	31
600526	180/1	cotita20x22	31
600527	180/1	cotita21x23	31
600528	180/1	cotita22x24	31
600529	180/1	cotita24x26	31
600530	180/1	cotita24x27	31
600531	180/1	cotita25x28	31
600532	180/1	cotita27x29	31
600533	180/1	cotita27x30	31
600534	180/1	cotita27x32	31
600535	180/1	cotita30x32	31
603124	180/1	cotita30x36	31
600536	180/1	cotita32x36	31
600537	180/1	cotita36x41	31
602664	180/1	cotita41x46	31
2955603	290	55x60	31
2965703	290	65x70	31
2975803	290	75x80	31
611810	181E/2	6x7	32
611811	181E/2	8x9	32
611812	181E/2	8x10	32
611813	181E/2	9x11	32
611814	181E/2	10x11	32
611815	181E/2	12x13	32
611816	181E/2	12x14	32
611817	181E/2	13x14	32
611818	181E/2	13x15	32
611819	181E/2	14x15	32
611820	181E/2	13x17	32
611821	181E/2	14x17	32
611822	181E/2	16x17	32
611823	181E/2	16x18	32
611824	181E/2	17x19	32
611825	181E/2	18x19	32
611826	181E/2	19x22	32
611827	181E/2	20x22	32
611828	181E/2	21x23	32
611829	181E/2	22x24	32
611830	181E/2	24x26	32
611831	181E/2	24x27	32
611832	181E/2	25x28	32
611833	181E/2	27x32	32
611834	181E/2	30x32	32
600541	180/1CB	6 - 22 / 8	32
603674	180/1CB	6 - 27 / 10	32
600542	180/1CB	6 - 32 / 12	32
600543	180/1CB	6 - 41 / 13	32
605547	180/1CB	1/4" - 1.1/4" / 12	32
602845	180/1CS	6 - 22 / 8	32
605545	180/1MS	6 - 32 / 12	32
615473	180/1CT	6 - 22 / 8	33
600544	180/1PB	6 - 22 / 8	33
CTRM14	CTRM	14	33
CTRM15	CTRM	15	33
CTRM16	CTRM	16	33
CTRM17	CTRM	17	33
CTRM18	CTRM	18	33
CTRM19	CTRM	19	33
CTRM21	CTRM	21	33
CTRM22	CTRM	22	33
CTRM23	CTRM	23	33
CTRM24	CTRM	24	33
CTRM25	CTRM	25	33
CTRM26	CTRM	26	33
CTRM27	CTRM	27	33
CTRM30	CTRM	30	33
CTRM31	CTRM	31	33
CTRM32	CTRM	32	33
CTRM35	CTRM	35	33
CTRM36	CTRM	36	33
CTRM38	CTRM	38	33
CTRM40	CTRM	40	33
CTRM41	CTRM	41	33
CTRM45	CTRM	45	33
CTRM46	CTRM	46	33
CTRM49	CTRM	49	33
CTRM50	CTRM	50	33
CTRM55	CTRM	55	33
CTRM57	CTRM	57	33
CTRM60	CTRM	60	33
612004	182/2A	6x7	33
612005	182/2A	8x9	33
612006	182/2A	10x11	33
612007	182/2A	12x13	33
612008	182/2A	14x15	33
612009	182/2A	16x17	33
612010	182/2A	18x19	33
612011	182/2A	20x22	33
612013	182/2A	24x26	33
612015	182/2A	27x29	33
612016	182/2A	30x32	33
612567	182/2ACB	6 - 22 / 8	34
612568	182/2ACB	6 - 32 / 12	34
612701	183/2	8x10	34
612702	183/2	10x11	34
612703	183/2	11x13	34
612704	183/2	12x14	34
615147	183/2	16x18	34
612705	183/2	17x19	34
612706	183/2	19x22	34
612707	183/2	22x24	34
612708	183/2	24x27	34
612709	183/2	30x32	34
612892	182/2BTX	E6xE8	34
612893	182/2BTX	E10xE12	34
612894	182/2BTX	E14xE18	34
612895	182/2BTX	E20xE24	34
612985	183/2CB	8 - 22 / 6	34
612986	183/2CB	8 - 32 / 9	34
615467	183/2CT	8 - 24 / 6	34
622818	160/2	8	35

622819	160/2	9	35
622820	160/2	10	35
622821	160/2	11	35
622822	160/2	12	35
622823	160/2	13	35
622824	160/2	14	35
622825	160/2	15	35
622826	160/2	16	35
622827	160/2	17	35
622828	160/2	18	35
622829	160/2	19	35
622831	160/2	21	35
622832	160/2	22	35
622834	160/2	24	35
623709	160/2CS	8-19/6pcs	35
623080	160/2CB	8-24/9pcs	35
622839	161/2	8	35
622841	161/2	10	35
622842	161/2	11	35
622843	161/2	12	35
622844	161/2	13	35
622845	161/2	14	35
622846	161/2	15	35
622848	161/2	17	35
622850	161/2	19	35
623081	161/2CB	8 - 19 / 5	35
623710	161/2CS	8 - 19 / 6	35
615155	CT252	360x290	36
611640	166	6x7	36
611641	166	7x8	36
611642	166	8x9	36
611643	166	8x10	36
611644	166	10x11	36
611645	166	12x13	36
611646	166	12x14	36
623711	170/2CS	6-19/6pcs	36
622851	170/2	6x8	36
622852	170/2	8x9	36
622853	170/2	8x10	36
622854	170/2	10x11	36
622856	170/2	12x13	36
622857	170/2	14x15	36
622858	170/2	16x18	36
622859	170/2	17x19	36
623082	170/2CB	6-19/6pcs	36
620494	184/7	24	37
620495	184/7	27	37
620496	184/7	30	37
620497	184/7	32	37
620498	184/7	36	37
620499	184/7	41	37
620500	184/7	46	37
620501	184/7	50	37
620502	184/7	55	37
620503	184/7	60	37
620504	184/7	65	37
620505	184/7	70	37
620506	184/7	75	37
620507	184/7	80	37
620508	184/7	85	37
620509	184/7	90	37
620510	184/7	95	37
620511	184/7	100	37
620512	184/7	105	37
620513	184/7	110	37
620514	184/7	115	37
620515	184/7	120	37
620516	184/7	125	37
620517	184/7	130	37
620518	184/7	135	37
620519	184/7	140	37
620520	184/7	145	37
620521	184/7	150	37
620522	184/7	1.1/16"	37
620523	184/7	1.1/8"	37
620525	184/7	1.1/4"	37
620526	184/7	1.5/16"	37
620527	184/7	1.3/8"	37
620528	184/7	1.7/16"	37
620529	184/7	1.1/2"	37
620530	184/7	1.5/8"	37
620531	184/7	1.11/16"	37
620532	184/7	1.3/4"	37
620533	184/7	1.13/16"	37
620534	184/7	1.7/8"	37
620535	184/7	2"	37
620536	184/7	2.1/16"	37
620537	184/7	2.1/8"	37
620538	184/7	2.3/16"	37
620539	184/7	2.1/4"	37
620540	184/7	2.5/16"	37
620541	184/7	2.3/8"	37
620542	184/7	2.1/2"	37
620543	184/7	2.9/16"	37
620544	184/7	2.5/8"	37
620545	184/7	2.3/4"	37
620546	184/7	2.15/16"	37
620547	184/7	3"	37
620548	184/7	3.1/8"	37
620549	184/7	3.3/8"	37
620550	184/7	3.1/2"	37
620553	184/7	4"	37
620555	184/7	4.1/2"	37
700659	7184	24	37
700660	7184	27	37
700661	7184	30	37
700662	7184	32	37
700663	7184	36	37
700664	7184	41	37
700665	7184	46	37
700666	7184	50	37
700667	7184	55	37
700668	7184	60	37
900501	7184	65	37
900502	7184	70	37
2711007	270SG	110	37
2711507	270SG	115	37
2712007	270SG	120	37
2712507	270SG	125	37
2713507	270SG	135	37
2714007	270SG	140	37
2714507	270SG	145	37
2715007	270SG	150	37
FSWM16	FSWM	16	38
FSWM17	FSWM	17	38
FSWM18	FSWM	18	38
FSWM19	FSWM	19	38
FSWM20	FSWM	20	38
FSWM21	FSWM	21	38
FSWM22	FSWM	22	38
FSWM23	FSWM	23	38
FSWM24	FSWM	24	38
FSWM25	FSWM	25	38
FSWM26	FSWM	26	38
FSWM27	FSWM	27	38
FSWM28	FSWM	28	38
FSWM29	FSWM	29	38
FSWM30	FSWM	30	38
FSWM31	FSWM	31	38
FSWM32	FSWM	32	38
FSWM33	FSWM	33	38
FSWM34	FSWM	34	38
FSWM35	FSWM	35	38
FSWM36	FSWM	36	38
FSWM37	FSWM	37	38
FSWM38	FSWM	38	38
FSWM39	FSWM	39	38
FSWM40	FSWM	40	38
FSWM41	FSWM	41	38
FSWM42	FSWM	42	38
FSWM43	FSWM	43	38
FSWM44	FSWM	44	38
FSWM45	FSWM	45	38
FSWM46	FSWM	46	38
FSWM47	FSWM	47	38
FSWM48	FSWM	48	38
FSWM49	FSWM	49	38
FSWM50	FSWM	50	38
FSWM51	FSWM	51	38
FSWM52	FSWM	52	38
FSWM54	FSWM	54	38
FSWM55	FSWM	55	38
FSWM56	FSWM	56	38
FSWM57	FSWM	57	38
FSWM58	FSWM	58	38
FSWM59	FSWM	59	38
FSWM60	FSWM	60	38
FSWM61	FSWM	61	38
FSWM62	FSWM	62	38
FSWM65	FSWM	65	38
FSWM67	FSWM	67	38
FSWM70	FSWM	70	38
FSWM72	FSWM	72	38
FSWM73	FSWM	73	38
FSWM75	FSWM	75	38
FSWM76	FSWM	76	38
FSWM77	FSWM	77	38
FSWM80	FSWM	80	38
FSWM82	FSWM	82	38
FSWM85	FSWM	85	38
FSWM86	FSWM	86	38
FSWM87	FSWM	87	38
FSWM90	FSWM	90	38
FSWM95	FSWM	95	38
FSWM100	FSWM	100	38
FSWM105	FSWM	105	38
FSWM110	FSWM	110	38
FSWM115	FSWM	115	38
FSWM120	FSWM	120	38
FSWM125	FSWM	125	38
FSWM130	FSWM	130	38
FSWM135	FSWM	135	38
FSWM140	FSWM	140	38
FSWM145	FSWM	145	38
FSWM150	FSWM	150	38
FSWM155	FSWM	155	38
FSWM160	FSWM	160	38
FSWM165	FSWM	165	38
FSWM170	FSWM	170	38
FSWM175	FSWM	175	38
FSWM180	FSWM	180	38
FSWM190	FSWM	190	38
FSWM200	FSWM	200	38
FSWM210	FSWM	210	38
FSWM220	FSWM	220	38
FSWM230	FSWM	230	38
620466	118/7	24	38
620467	118/7	27	38
620468	118/7	30	38
620469	118/7	32	38
620470	118/7	36	38
620471	118/7	41	38
620472	118/7	46	38
620473	118/7	50	38
620474	118/7	55	38
620475	118/7	60	38
620476	118/7	65	38
620477	118/7	70	38
620478	118/7	75	38
620479	118/7	80	38
620480	118/7	85	38
620481	118/7	90	38
620482	118/7	95	38
620483	118/7	100	38
620484	118/7	105	38
620485	118/7	110	38
620486	118/7	115	38
620487	118/7	120	38
620488	118/7	125	38
620489	118/7	130	38
620490	118/7	135	38
620491	118/7	140	38
620492	118/7	145	38
620493	118/7	150	38
700264	7118	24mm	39
700265	7118	27mm	39
700266	7118	30mm	39
700267	7118	32mm	39
700268	7118	36mm	39
700269	7118	41mm	39
700270	7118	46mm	39
700271	7118	50mm	39
700272	7118	55mm	39
700273	7118	60mm	39
613050	255/2	12-14	39
613051	255/2	16-20	39
613052	255/2	25-28	39
613053	255/2	30-32	39
613054	255/2	34-36	39
613055	255/2	40-42	39
613056	255/2	45-50	39
613057	255/2	52-55	39
613058	255/2	58-62	39
613059	255/2	68-75	39
613060	255/2	80-90	39
613061	255/2	95-100	39
613062	255/2	110-115	39
613063	255/2	120-130	39
615027	255/2F	15-35	39
615028	255/2F	35-50	39
615029	255/2F	50-80	39
615030	255/2F	80-120	39
615031	255/2F	120-180	39
615156	255/2CT	9	40
9207921	681 B	12-14	40
9202231	681 B	16-18	40
9202241	681 B	20-22	40
9202251	681 B	25-28	40
9202261	681 B	30-32	40
9202271	681 B	34-36	40
9202281	681 B	40-42	40
9202291	681 B	45-50	40
9202301	681 B	52-55	40
9202311	681 B	58-62	40
9202321	681 B	68-75	40
9202331	681 B	80-90	40
9202341	681 B	95-100	40
9202351	681 B	110-115	40
9202361	681 B	120-130	40
9202371	681 B	135-145	40
9202381	681 B	155-165	40
9202391	681 B	180-195	40
9202401	681 B	205-220	40
9222851	516 B	22-35	40
9222861	516 B	35-60	40
9222871	516 B	60-90	40
9222881	516 B	95-155	40
9227721	516 B	165-230	40
608283	193N	5.5	40
608284	193N	6	40
608285	193N	7	40
608286	193N	8	40
608287	193N	9	40
608288	193N	10	40
608289	193N	11	40
608290	193N	12	40
608291	193N	13	40
608292	193N	14	40
608293	193N	15	40
608294	193N	16	40
608295	193N	17	40
602075	196/2	8	40
602076	196/2	10	40
605001	196/2	12	40
602077	196/2	13	40
602078	196/2	17	40
RWM1012	RWM	10x12	41
RWM1417	RWM	14x17	41
RWM1319	RWM	13x19	41
RWM1719	RWM	17x19	41
RWM1824	RWM	18x24	41
RWM1921	RWM	19x21	41
RWM1922	RWM	19x22	41
RWM1924	RWM	19x24	41
RWM2124	RWM	21x24	41
RWM2224	RWM	22x24	41
RWM2427	RWM	24x27	41
RWM2430	RWM	24x30	41

RWM2730	RWM	27x32	41
RWM3036	RWM	30x36	41
RWM3236	RWM	32x36	41
RWM3641	RWM	36x41	41
609132	202/1	8x9	41
609133	202/1	8x10	41
609134	202/1	10x11	41
609135	202/1	12x13	41
609136	202/1	13x17	41
609137	202/1	14x15	41
609138	202/1	16x17	41
609139	202/1	18x19	41
609141	202/1	20x22	41
609145	202/1CB	8-22/7pcs	41
609146	202/1CB	8/32/10pcs	41
615472	202/1CT	8-22/8pcs	41
609102	176	6	42
609103	176	7	42
609104	176	8	42
609105	176	9	42
609106	176	10	42
609107	176	11	42
609108	176	12	42
609109	176	13	42
609110	176	14	42
609111	176	15	42
609112	176	16	42
609113	176	17	42
609114	176	18	42
609115	176	19	42
609116	176	20	42
609117	176	21	42
609118	176	22	42
609119	176	23	42
609120	176	24	42
609121	176	25	42
609122	176	26	42
609123	176	27	42
609124	176	28	42
609125	176	29	42
609126	176	30	42
609127	176	32	42
609128	176	35	42
609129	176	36	42
609130	176CB	8 - 24 / 16	42
609131	176CB	8 - 32 / 22	42
620581	176CS6	8-19/6pcs	42
620582	176CS11	8-24/11pcs	43
609083	177	8	43
609084	177	9	43
609085	177	10	43
609086	177	11	43
609087	177	12	43
609088	177	13	43
609089	177	14	43
609090	177	15	43
609091	177	16	43
609092	177	17	43
609093	177	18	43
609094	177	19	43
609095	177	20	43
609096	177	21	43
609097	177	22	43
609098	177	23	43
609099	177	24	43
609100	177CB	8 - 24 / 16	43
620583	177CS6	8-19/6pcs	43
620584	177CS11	8-24/11pcs	43
600696	215/2	6x7	43
600697	215/2	8x9	43
600698	215/2	8x10	43
600699	215/2	10x11	43
600700	215/2	12x13	43
600717	215/2	13x17	43
600701	215/2	14x15	43
600718	215/2	14x17	43
600702	215/2	16x17	43
607957	215/2	16x18	43
600719	215/2	17x19	43
607958	215/2	17x21	43
600703	215/2	18x19	43
605043	215/2	18x21	43
605044	215/2	19x22	43
607960	215/2	19x24	44
600705	215/2	20x22	44
600706	215/2	21x23	44
607962	215/2	22x24	44
600707	215/2	24x26	44
600723	215/2	24x27	44
600708	215/2	25x28	44
607964	215/2	27x29	44
617633	215/2	27x30	44
600709	215/2	27x32	44
602557	215/2	30x32	44
603128	215/2	30x36	44
603129	215/2	36x41	44
618575	215/2	41x46	44
618576	215/2	46x50	44
618577	215/2	50x55	44
600745	215.1/2	6-17	44
600747	215.1/2	18-41	44
624342	215.1/2	55	44
600710	215/2CB	6-32/14pcs	44
617053	217/2	5.5	44
617054	217/2	6	44
617055	217/2	7	44
617056	217/2	8	44
617057	217/2	9	44
617058	217/2	10	44
617059	217/2	11	44
617060	217/2	12	44
617061	217/2	13	44
617062	217/2	14	44
617063	217/2	15	44
617064	217/2	16	44
617065	217/2	17	44
617066	217/2	18	44
617067	217/2	19	44
617069	217/2	21	44
617070	217/2	22	44
617075	217/2	32	44
600782	210/2	17	44
600783	210/2	19	44
600785	212/2	17	45
600786	212/2	19	45
600788	212/2	24	45
600789	212/2	27	45
600790	212/2	30	45
600791	212/2	32	45
600810	213/6	17x19x11/16x1/2	45
600811	213/6	17x19x22x1/2"	45
600809	213/6	17x19x21x23	45
600812	213/6	17x19x22x24	45
600813	213/6	24x27x30x3/4"	45
600814	213/6	24x27x30x32	45
600771	185/2	16-145	45
607956	185/2	19-115	45
600772	185/2	21-115	45
600773	185/2	21-180	45
605112	175/2	8x10	45
601024	205/2	60-140	46
602841	205.1	205/2	46
601025	206/2	60-140	46
620938	206.1	500	46
600671	200/2	11x13	46
600672	200/2	13x17	46
600673	200/2	14x17	46
600674	200/2	15x16	46
600676	200/2	19x22	46
600677	200/2CB	11 - 22 / 5	46
607823	220/3	1,5	47
607824	220/3	2	47
607825	220/3	2,5	47
601036	220/3	3	47
601037	220/3	4	47
601038	220/3	5	47
601040	220/3	6	47
601041	220/3	7	47
601042	220/3	8	47
601044	220/3	10	47
601045	220/3	12	47
601046	220/3	14	47
601047	220/3	17	47
601048	220/3	19	47
90206	Hex-L® tamper resistant	3/32"	47
90208	Hex-L® tamper resistant	1/8"	47
90210	Hex-L® tamper resistant	5/32"	47
90212	Hex-L® tamper resistant	3/16"	47
90214	Hex-L® tamper resistant	7/32"	47
90216	Hex-L® tamper resistant	1/4"	47
90220	Hex-L® tamper resistant	5/16"	47
90224	Hex-L® tamper resistant	3/8"	47
15500	Hex-L®	0.7	47
15501	Hex-L®	0.9	47
15502	Hex-L®	1.3	47
15503	Hex-L®	1.5	47
15504	Hex-L®	2	47
15505	Hex-L®	2.5	47
15506	Hex-L®	3	47
15508	Hex-L®	4	47
15510	Hex-L®	5	47
15512	Hex-L®	6	47
15514	Hex-L®	7	47
15516	Hex-L®	8	47
15518	Hex-L®	9	47
15520	Hex-L®	10	47
15524	Hex-L®	12	47
15528	Hex-L®	14	47
15534	Hex-L®	17	47
15538	Hex-L®	19	47
15544	Hex-L®	22	47
15548	Hex-L®	24	47
15551	Hex-L®	27	47
15556	Hex-L®	32	47
15560	Hex-L®	36	47
15101	Hex-L®	028"	47
15102	Hex-L®	035"	47
15103	Hex-L®	050"	47
15104	Hex-L®	1/16"	47
15105	Hex-L®	5/64"	47
15106	Hex-L®	3/32"	47
15107	Hex-L®	7/64"	47
15108	Hex-L®	1/8"	47
15109	Hex-L®	9/64"	47
15110	Hex-L®	5/32"	47
15112	Hex-L®	3/16"	47
15114	Hex-L®	7/32"	47
15116	Hex-L®	1/4"	47
15120	Hex-L®	5/16"	47
15124	Hex-L®	3/8"	47
15128	Hex-L®	7/16"	47
15132	Hex-L®	1/2"	47
15136	Hex-L®	9/16"	47
15140	Hex-L®	5/8"	47
15148	Hex-L®	3/4"	47
15156	Hex-L®	7/8"	47
15164	Hex-L®	1"	47
15166	Hex-L®	1/8"	47
15168	Hex-L®	1/4"	47
15172	Hex-L®	1/2"	47
15176	Hex-L®	3/4"	47
15180	Hex-L®	2"	47
18609	Ball-Hex™	4.5	47
18624	Ball-Hex™	12	47
18628	Ball-Hex™	14	47
18634	Ball-Hex™	17	47
18638	Ball-Hex™	19	47
607826	220/3S	1.5	48
607827	220/3S	2	48
607828	220/3S	2.5	48
607829	220/3S	3	48
607830	220/3S	4	48
607831	220/3S	5	48
607832	220/3S	6	48
607834	220/3S	8	48
607835	220/3S	10	48
15600	Hex-L®	0.7	48
15601	Hex-L®	0.9	48
15602	Hex-L®	1.3	48
15603	Hex-L®	1.5	48
15604	Hex-L®	2	48
15605	Hex-L®	2.5	48
15606	Hex-L®	3	48
15607	Hex-L®	3.5	48
15608	Hex-L®	4	48
15609	Hex-L®	4.5	48
15610	Hex-L®	5	48
15611	Hex-L®	5.5	48
15612	Hex-L®	6	48
15614	Hex-L®	7	48
15616	Hex-L®	8	48
15618	Hex-L®	9	48
15620	Hex-L®	10	48
15622	Hex-L®	11	48
15624	Hex-L®	12	48
15628	Hex-L®	14	48
15634	Hex-L®	17	48
15638	Hex-L®	19	48
15644	Hex-L®	22	48
15648	Hex-L®	24	48
15651	Hex-L®	27	48
15656	Hex-L®	32	48
15660	Hex-L®	36	48
15201	Hex-L®	0.028"	48
15202	Hex-L®	0.035"	48
15203	Hex-L®	0.05"	48
15204	Hex-L®	1/16"	48
15205	Hex-L®	5/64"	48
15206	Hex-L®	3/32"	48
15207	Hex-L®	7/64"	48
15208	Hex-L®	1/8"	48
15209	Hex-L®	9/64"	48
15210	Hex-L®	5/32"	48
15212	Hex-L®	3/16"	48
15214	Hex-L®	7/32"	48
15216	Hex-L®	1/4"	48
15220	Hex-L®	5/16"	48
15224	Hex-L®	3/8"	48
15228	Hex-L®	7/16"	48
15232	Hex-L®	1/2"	48
15236	Hex-L®	9/16"	48
15240	Hex-L®	5/8"	48
15248	Hex-L®	3/4"	48
15256	Hex-L®	7/8"	48
15264	Hex-L®	1"	48
15266	Hex-L®	1 1/8"	48
15268	Hex-L®	1 1/4"	48
15272	Hex-L®	1 1/2"	48
15276	Hex-L®	1 3/4"	48
15280	Hex-L®	2"	48
608510	220/3L	1.5	48
608511	220/3L	2	48
608512	220/3L	2.5	48
608513	220/3L	3	48
608514	220/3L	4	48
608515	220/3L	5	48
608516	220/3L	6	48
608517	220/3L	7	48
608518	220/3L	8	48
608519	220/3L	10	48
608520	220/3L	12	48
608521	220/3L	14	48
608522	220/3L	17	48
608523	220/3L	19	48
616975	220/3L	1/16"	48
616976	220/3L	5/64"	48
616977	220/3L	3/32"	48
616978	220/3L	1/8"	48
616979	220/3L	9/64"	48
616980	220/3L	5/32"	48
616981	220/3L	3/16"	48

616982	220/3L	7/32"	48
616983	220/3L	1/4"	48
616984	220/3L	5/16"	48
616985	220/3L	3/8"	48
616986	220/3L	7/16"	48
616987	220/3L	1/2"	48
616988	220/3L	9/16"	48
616989	220/3L	5/8"	48
616990	220/3L	3/4"	48
608524	220/3SL	1.5	49
608525	220/3SL	2	49
608526	220/3SL	2.5	49
608527	220/3SL	3	49
608528	220/3SL	4	49
608529	220/3SL	5	49
608530	220/3SL	6	49
608531	220/3SL	8	49
608532	220/3SL	10	49
617146	220FH	2.5-10/7pcs	49
610986	220/3MH	2.5-10/7pcs	49
25161	25161	3,0-10,0 / 6 piese	49
25181	25181	2,0-8,0 / 8 piese	49
617149	220FH	3/32"-3/8"/7pcs	49
25611	25611	5/32-3/8/6pcs	50
25911	25911	5/64" - 1/4" / 9	50
25912	25912	050-3/16/9pcs	50
617147	220/3SFH	2,5-10/7pcs	50
25169	25169	2,0-6,0 / 6	50
25519	25519	3/16"-3/8" / 5	50
25919	25919	5/64-1/4/9pcs	50
610914	220/3PB1	2-10/8pcs	50
612161	220/3PB1	5/64" - 3/8" / 8	51
610916	220/3SPB1	2 - 10 / 8	51
610915	220/3LPB2	2-10/8pcs	51
610917	220/3SLPB2	2 - 10 / 8	51
607852	220/3PH	1.5 - 10 / 9	51
617079	220/3PH	1.5 - 12 / 10	51
10509	10509	1,5-10,0 / 9	51
10107	10107	5/64-1/4/7pcs	52
10111	10111	050-1/4/11pcs	52
10112	10112	050-5/16/12pcs	52
10113	10113	050-3/8/13pcs	52
10018	10018	scurte+lungi/18pcs	52
607853	220/3SPH	1.5 - 10 / 9	52
608533	220/3LPH	1.5 - 10 / 9	52
617080	220/3LPH	1.5-12/10pcs	52
11609	11609	1.5 - 10 / 9	52
10609	10609	1,5-10,0 / 9	53
617082	220/3LPH	1/16"-3/8"/9pcs	53
10207	10207	5/64-1/4/7pcs	53
10211	10211	050-1/4/11pcs	53
10212	10212	050-5/16/12pcs	53
10213	10213	050-3/8/13pcs	53
608534	220/3SLPH	1.5 - 10 / 9	53
13709	13709	1.5 - 10 / 9	53
17709	17709	1.5 - 10 / 9	53
13507	13507	1.5 - 6 / 7	53
13609	13609	1,5-10,0 / 9	54
29016	29016	piese-13609+25171	54
13509	13509	1,5-10,0 / 9	54
17609	17609	1,5-10,0 / 9	54
13207	13207	5/64-1/4/7pcs	54
13212	13212	.050" - 5/16" / 12	54
13297	13297	5/64-3/16/7pcs	54
17213	17213	.050" - 3/8" / 12	54
601059	220/3PB	3-14/8pcs	55
601057	220/3PB	3-10/6pcs	55
601061	220/3PB	3-19/10pcs	55
10592	10592	0,7-10,0 / 12	55
69210	69210	1,3-10,0 / 10	55
69511	69511	1,5-10,0 / 10	55
69215	69215	028-3/8/15pcs	55
69218	69218	.050" - 5/16" / 20	55
69213	69213	.050" - 3/8" / 15	56
616296	220/7TX	9	56
609173	220/7TX	10	56
609174	220/7TX	15	56
609175	220/7TX	20	56
609176	220/7TX	25	56
609177	220/7TX	27	56
609178	220/7TX	30	56
609179	220/7TX	40	56
616991	220/7TXN	TX6	56
616992	220/7TXN	TX7	56
616993	220/7TXN	TX8	56
616994	220/7TXN	TX9	56
616995	220/7TXN	TX10	56
616996	220/7TXN	TX15	56
616997	220/7TXN	TX20	56
616998	220/7TXN	TX25	56
616999	220/7TXN	TX27	56
617000	220/7TXN	TX30	56
617001	220/7TXN	TX40	56
617002	220/7TXN	TX45	56
617003	220/7TXN	TX50	56
617004	220/7TXN	TX55	56
15805	Torx®	T5	56
15806	Torx®	T6	56
15807	Torx®	T7	56
15808	Torx®	T8	56
15809	Torx®	T9	56
15810	Torx®	T10	56
15815	Torx®	T15	56
15820	Torx®	T20	56
15827	Torx®	TX27	56
15845	Torx®	TX45	56
15850	Torx®	TX50	56
15860	Torx®	TX60	56
15905	Torx®	T5	56
15910	Torx®	TX10	56
15915	Torx®	15	56
15920	Torx®	20	56
15925	Torx®	25	56
15927	Torx®	27	56
15930	Torx®	30	56
15006	Ball / Torx®	T6	56
15007	Ball / Torx®	T7	56
15008	Ball / Torx®	T8	56
15060	Ball / Torx®	T60	56
15706	Torx®	T6	56
15707	Torx®	T7	56
15708	Torx®	T8	56
15745	Torx®	T45	56
15750	Torx®	T50	56
15755	Torx®	T55	56
15760	Torx®	T60	56
617150	220/7TXNFH	9-40/8pcs	57
610987	220/7TXMH	TX 9 - TX 40 / 8	57
25570	25570	TX10 - TX40 / 7	57
613089	220/7TXPH	TR 9 - TR 40 / 8	57
617078	220/7TXPPH	9-40/8pcs	57
613090	220/7TXSPH	9-40/8pcs	57
10807	10807	TX10-TX40/7	57
10907	10907	TX10-TX40/7	57
10007	10007	TX10-TX40/7	58
10707	10707	TX10-TX40/7	58
11907	11907	TX10-TX40/7	58
10814	10814	TX6-TX55 / 14	58
10897	10897	TX6-TX20 / 7	58
10910	10910	TX10 - TX55 / 10	58
10810	10810	TX10-TX55/7	58
623238	193HX	2	59
607161	193HX	2.5	59
607162	193HX	3	59
607163	193HX	3.5	59
607164	193HX	4	59
607165	193HX	4.5	59
607166	193HX	5	59
607167	193HX	6	59
607168	193HX	7	59
607169	193HX	8	59
607170	193HX	10	59
64820	Power-T™ Ball-Hex 9"	2	59
64825	Power-T™ Ball-Hex 9"	2.5	59
64830	Power-T™ Ball-Hex 9"	3	59
64840	Power-T™ Ball-Hex 9"	4	59
64850	Power-T™ Ball-Hex 9"	5	59
64860	Power-T™ Ball-Hex 9"	6	59
64870	Power-T™ Ball-Hex 9"	7	59
64880	Power-T™ Ball-Hex 9"	8	59
64885	Power-T™ Ball-Hex 9"	9	59
64890	Power-T™ Ball-Hex 9"	10	59
61805	Power-T™ Ball-Hex 9"	5/64"	59
61806	Power-T™ Ball-Hex 9"	3/32"	59
61807	Power-T™ Ball-Hex 9"	7/64"	59
61808	Power-T™ Ball-Hex 9"	1/8"	59
61809	Power-T™ Ball-Hex 9"	9/64"	59
61810	Power-T™ Ball-Hex 9"	5/32"	59
61812	Power-T™ Ball-Hex 9"	3/16"	59
61814	Power-T™ Ball-Hex 9"	7/32"	59
61816	Power-T™ Ball-Hex 9"	1/4"	59
61820	Power-T™ Ball-Hex 9"	5/16"	59
61824	Power-T™ Ball-Hex 9"	3/8"	59
608276	193HXS	2.5	59
608277	193HXS	3	59
608278	193HXS	4	59
608279	193HXS	5	59
608280	193HXS	6	59
608281	193HXS	8	59
608282	193HXS	10	59
64620	Power-T™ Hex 6"	2	59
64625	Power-T™ Hex 6"	2.5	59
64630	Power-T™ Hex 6"	3	59
64640	Power-T™ Hex 6"	4	59
64650	Power-T™ Hex 6"	5	59
64660	Power-T™ Hex 6"	6	59
64670	Power-T™ Hex 6"	7	59
64680	Power-T™ Hex 6"	8	59
64685	Power-T™ Hex 6"	9	59
64690	Power-T™ Hex 6"	10	59
61605	Power-T™ Hex 6"	5/64"	59
61606	Power-T™ Hex 6"	3/32"	59
61607	Power-T™ Hex 6"	7/64"	59
61608	Power-T™ Hex 6"	1/8"	59
61609	Power-T™ Hex 6"	9/64"	59
61610	Power-T™ Hex 6"	5/32"	59
61612	Power-T™ Hex 6"	3/16"	59
61614	Power-T™ Hex 6"	7/32"	59
61616	Power-T™ Hex 6"	1/4"	59
61620	Power-T™ Hex 6"	5/16"	59
61624	Power-T™ Hex 6"	3/8"	59
608879	193HXCB	2.5-10/10pcs	60
607890	193HXCS	2.5-10/7pcs	60
609337	193HXSCS	3-10/7pcs	60
607171	193TX	6	60
607172	193TX	7	60
607173	193TX	8	60
607174	193TX	9	60
607175	193TX	10	60
607176	193TX	15	60
607177	193TX	20	60
607178	193TX	25	60
607179	193TX	27	60
607180	193TX	30	60
607181	193TX	40	60
607182	193TX	45	60
68606	Power-T™ Torx®	T6	60
68607	Power-T™ Torx®	T7	60
68608	Power-T™ Torx®	T8	60
68609	Power-T™ Torx®	T9	60
68610	Power-T™ Torx®	T10	60
68615	Power-T™ Torx®	T15	60
68620	Power-T™ Torx®	T20	60
68625	Power-T™ Torx®	T25	60
68627	Power-T™ Torx®	T27	60
68630	Power-T™ Torx®	T30	60
68640	Power-T™ Torx®	T40	60
68645	Power-T™ Torx®	T45	60
68650	Power-T™ Torx®	T50	60
608880	193TXCB	6-45/10pcs	61
607888	193TXCS	10-45/7pcs	61
607889	193TXMS	6-45/10pcs	61
25461	25461	/6pcs	61
25651	25651	ERGO/5pcs	61

Capitol 2

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607898	187/2HX	3	64
607899	187/2HX	4	64
607900	187/2HX	5	64
607901	187/2HX	6	64
607902	187/2HX	7	64
607903	187/2TX	TX 8	64
607904	187/2TX	TX 10	64
607905	187/2TX	TX 15	64
607906	187/2TX	TX 20	64
607907	187/2TX	TX 25	64
607908	187/2TX	TX 27	64
607909	187/2TX	TX 30	64
607910	187/2TX	TX 40	64
607895	187/2SL	0.8	64
607896	187/2SL	1	64
607897	187/2SL	1.2	64
607892	187/2PH	PH 1	64
607893	187/2PH	PH 2	64
607894	187/2PH	PH 3	64
618682	188/2 6p	3.2	64
600815	188/2 6p	4	64
600816	188/2 6p	4.5	64
600817	188/2 6p	5	65
600818	188/2 6p	5.5	65
600819	188/2 6p	6	65
600820	188/2 6p	7	65
600821	188/2 6p	8	65
600822	188/2 6p	9	65
600823	188/2 6p	10	65
600824	188/2 6p	11	65
603130	188/2 6p	12	65
600825	188/2 6p	13	65
603131	188/2 6p	14	65
618683	188/2 6p	3/16"	65
618684	188/2 6p	7/32"	65
618685	188/2 6p	1/4"	65
618686	188/2 6p	9/32"	65
618687	188/2 6p	5/16"	65
618688	188/2 6p	11/32"	65
618689	188/2 6p	3/8"	65
618690	188/2 6p	13/32"	65
618691	188/2 6p	7/16"	65
618692	188/2 6p	1/2"	65
618693	188/2 6p	9/16"	65
616857	188/2 12p	4	65
616858	188/2 12p	4.5	65
616859	188/2 12p	5	65
616860	188/2 12p	5.5	65
616861	188/2 12p	6	65
616862	188/2 12p	7	65
616863	188/2 12p	8	65
616864	188/2 12p	9	65
616865	188/2 12p	10	65
616866	188/2 12p	11	65
616867	188/2 12p	12	65
616868	188/2 12p	13	65
616869	188/2 12p	14	65
616870	188/2 12p	3/16"	65
616871	188/2 12p	7/32"	65
616872	188/2 12p	1/4"	65
616873	188/2 12p	9/32"	65
616874	188/2 12p	5/16"	65

616875	188/2 12p	11/32"	65
616876	188/2 12p	3/8"	65
616877	188/2 12p	13/32"	65
616878	188/2 12p	7/16"	65
616879	188/2 12p	1/2"	65
616880	188/2 12p	9/16"	65
618697	188/2L6p	3.2	65
616881	188/2L6p	4	65
616882	188/2L6p	4.5	65
616883	188/2L6p	5	65
616884	188/2L6p	5.5	65
616885	188/2L6p	6	65
616886	188/2L6p	7	65
616887	188/2L6p	8	65
616888	188/2L6p	9	65
616889	188/2L6p	10	65
616890	188/2L6p	11	65
616891	188/2L6p	12	65
616892	188/2L6p	13	65
616893	188/2L6p	14	65
607911	189/2	E 4	65
607912	189/2	E 5	65
607913	189/2	E 6	65
607914	189/2	E 7	65
607915	189/2	E 8	65
607916	189/2	E 10	65
607917	189/2	E 11	65
611901	188.1/1ABI	1/4"	66
611902	188.2/2BI	1/4"	66
618367	188.1/1FBI	1/4"	66
600830	188.3/2	1/4"	66
612503	188.11	1/4"	66
600826	188.4/2	1/4"	67
600827	188.4/2	1/4"	67
612868	188.4/2F	1/4"	67
610911	188.4/2S	1/4"	67
610910	188.4/2S	1/4"	67
607821	188.6/2	1/4"	67
607976	188.7/2	1/4" - 3/8"	67
607349	188.8	1/4"	67
612867	188.9	1/4" - 1/4"	67
619088	188H	165	68
619235	188H	205	68
619410	188H1	11	68
622628	188H6P12	188H6P12	68
622629	188H6LP9	188H6LP9	68
611996	188BI	4 - 13 / 16	68
617118	188BI12P16	4 - 13 / 16	68
621407	188BI6P36	36	68
619414	188BI12P16INCH	3/16" - 9/16" / 15	69
619413	188BI6P16INCH	3/16" - 9/16" / 16	69
615150	188B	44	69
615151	188C	33	69
603193	186.4/2	16	69
620820	186.4/2	18	69
603192	186.4/2	19	69
600776	186.4/2	21	69
622513	186.4/2A	14	69
612082	236/2HX	4	70
612083	236/2HX	5	70
612084	236/2HX	6	70
612085	236/2HX	8	70
612086	236/2HX	10	70
617662	236/2HX	1/8"	70
617663	236/2HX	9/64"	70
617664	236/2HX	5/32"	70
617665	236/2HX	3/16"	70
617666	236/2HX	7/32"	70
617667	236/2HX	1/4"	70
617668	236/2HX	5/16"	70
617669	236/2HX	3/8"	70
612087	236/2HXL	4	70
612088	236/2HXL	5	70
612089	236/2HXL	6	70
612090	236/2HXL	8	70
612091	236/2HXL	10	70
612093	236/2PH	PH 2	70
612094	236/2PH	PH 3	70
612098	236/2SL	5.5	70
612099	236/2SL	8	70
612100	236/2SL	10	70
612101	236/2TX	TX 15	70
612102	236/2TX	TX 20	70
612103	236/2TX	TX 25	70
612104	236/2TX	TX 27	70
612105	236/2TX	TX 30	70
612106	236/2TX	TX 40	70
612113	236/2ZX	M5	71
612114	236/2ZX	M6	71
612115	236/2ZX	M8	71
612116	236/2ZX	M10	71
605322	238/1 6p	6	71
605323	238/1 6p	7	71
605324	238/1 6p	8	71
605325	238/1 6p	9	71
605326	238/1 6p	10	71
605327	238/1 6p	11	71
605328	238/1 6p	12	71
605329	238/1 6p	13	71
605330	238/1 6p	14	71
605331	238/1 6p	15	71
605332	238/1 6p	16	71
605333	238/1 6p	17	71
605334	238/1 6p	18	71
605335	238/1 6p	19	71
605336	238/1 6p	20	71
605337	238/1 6p	21	71
605338	238/1 6p	22	71
612121	237/1	E 8	71
612122	237/1	E 10	71
612123	237/1	E 11	71
612124	237/1	E 12	71
612125	237/1	E 14	71
612126	237/1	E 16	71
617122	238/1 12p	6	71
616905	238/1 12p	7	71
616906	238/1 12p	8	71
616907	238/1 12p	9	71
616908	238/1 12p	10	71
616909	238/1 12p	11	71
616910	238/1 12p	12	71
616911	238/1 12p	13	71
616912	238/1 12p	14	71
616913	238/1 12p	15	71
616914	238/1 12p	16	71
616915	238/1 12p	17	71
616916	238/1 12p	18	71
616917	238/1 12p	19	71
616918	238/1 12p	20	71
616919	238/1 12p	21	71
616920	238/1 12p	22	71
616921	238/1 12p	23	71
616922	238/1 12p	24	71
616923	238/1 12p	1/4"	71
616924	238/1 12p	5/16"	71
616925	238/1 12p	3/8"	71
616926	238/1 12p	7/16"	72
616927	238/1 12p	1/2"	72
616928	238/1 12p	9/16"	72
616929	238/1 12p	5/8"	72
616930	238/1 12p	11/16"	72
616931	238/1 12p	3/4"	72
616932	238/1 12p	13/16"	72
616933	238/1 12p	7/8"	72
616934	238/1 12p	15/16"	72
616935	238/1 12p	1"	72
612036	238/1L6p	8	72
612037	238/1L6p	9	72
612038	238/1L6p	10	72
612039	238/1L6p	11	72
612040	238/1L6p	12	72
612041	238/1L6p	13	72
612042	238/1L6p	14	72
612043	238/1L6p	15	72
612044	238/1L6p	16	72
612045	238/1L6p	17	72
612046	238/1L6p	18	72
612047	238/1L6p	19	72
612048	238/1L6p	20	72
612049	238/1L6p	21	72
612050	238/1L6p	22	72
11501420002	11501420002	3/8"	72
612501	238.1/1ABI	3/8"	72
617631	238.1/1ALBI	3/8"	72
618368	238.1/1FBI	3/8"	73
612502	238.2/1BI	3/8"	73
605341	238.3/1	3/8"	73
612505	238.11	8	73
600777	238.4/2	3/8"	73
600778	238.4/2	3/8"	73
605343	238.4/1	3/8"	73
605342	238.4/1	3/8"	73
610913	238.4/1S	3/8"	73
611962	238.5/2	3/8"	74
605344	238.6/1	3/8"	74
607977	238.7/1	3/8" - 1/4"	74
605345	238.7/2	3/8" - 1/2"	74
620855	238.12	3/8" - 1/4"	74
619089	238H	260	74
619236	238H	345	74
619411	238H1	16	74
612509	239A	6 - 22 / 24	75
617117	239A12P24	6 - 22 / 24	75
612510	239B	3/8" - 7/8" / 16	75
613072	239C	30	75
613073	239D	30	75
622630	238H6P16	7 - 22 / 16	75
605307	190/1 6p	8	76
610155	190/1 6p	9	76
600851	190/1 6p	10	76
600852	190/1 6p	11	76
600853	190/1 6p	12	76
600854	190/1 6p	13	76
600855	190/1 6p	14	76
600856	190/1 6p	15	76
600857	190/1 6p	16	76
600858	190/1 6p	17	76
600859	190/1 6p	18	76
600860	190/1 6p	19	76
600861	190/1 6p	20	76
600862	190/1 6p	21	76
600863	190/1 6p	22	76
600864	190/1 6p	23	76
600865	190/1 6p	24	76
600866	190/1 6p	25	76
600867	190/1 6p	26	76
600868	190/1 6p	27	76
600869	190/1 6p	28	76
610156	190/1 6p	29	76
600871	190/1 6p	30	76
600872	190/1 6p	32	76
610105	190/1 6p	5/16"	76
610106	190/1 6p	3/8"	76
610107	190/1 6p	7/16"	76
610108	190/1 6p	1/2"	76
610109	190/1 6p	9/16"	76
610110	190/1 6p	5/8"	76
610111	190/1 6p	11/16"	76
610112	190/1 6p	3/4"	76
610113	190/1 6p	13/16"	76
610114	190/1 6p	7/8"	76
610115	190/1 6p	15/16"	76
610116	190/1 6p	1"	76
610117	190/1 6p	1.1/16"	76
610118	190/1 6p	1.1/8"	76
610119	190/1 6p	1.3/16"	76
610120	190/1 6p	1.1/4"	76
603812	190/1 12p	10	76
603813	190/1 12p	11	76
603814	190/1 12p	12	76
603815	190/1 12p	13	76
603816	190/1 12p	14	76
603817	190/1 12p	15	76
603818	190/1 12p	16	76
603819	190/1 12p	17	76
603820	190/1 12p	18	76
603821	190/1 12p	19	76
603822	190/1 12p	20	76
603823	190/1 12p	21	76
603824	190/1 12p	22	76
603825	190/1 12p	23	76
603826	190/1 12p	24	76
603827	190/1 12p	27	76
603828	190/1 12p	30	76
603829	190/1 12p	32	76
621722	190/1 12p	36	76
609366	190/1 12p	3/8"	76
609367	190/1 12p	7/16"	76
609368	190/1 12p	1/2"	76
609369	190/1 12p	9/16"	76
609370	190/1 12p	19/32"	76
609371	190/1 12p	5/8"	76
609372	190/1 12p	11/16"	76
609373	190/1 12p	3/4"	76
609374	190/1 12p	25/32"	76
609375	190/1 12p	13/16"	76
609376	190/1 12p	7/8"	76
609377	190/1 12p	15/16"	76
609378	190/1 12p	1"	76
609379	190/1 12p	1.1/16"	76
609380	190/1 12p	1.1/8"	76
609381	190/1 12p	1.3/16"	76
609382	190/1 12p	1.1/4"	76
610762	190/1L12p	10	77
610763	190/1L12p	11	77
610764	190/1L12p	12	77
610765	190/1L12p	13	77
610766	190/1L12p	14	77
610767	190/1L12p	15	77
610768	190/1L12p	16	77
610769	190/1L12p	17	77
610770	190/1L12p	18	77
610771	190/1L12p	19	77
610772	190/1L12p	20	77
610773	190/1L12p	21	77
610774	190/1L12p	22	77
610775	190/1L12p	23	77
610776	190/1L12p	24	77
610777	190/1L12p	27	77
610778	190/1L12p	30	77
610779	190/1L12p	32	77
607141	191/1	E 10	77
607142	191/1	E 11	77
607143	191/1	E 12	77
607144	191/1	E 14	77
607145	191/1	E 16	77
607146	191/1	E 18	77
607147	191/1	E 20	77
607148	191/1	E 22	77
607149	191/1	E 24	77
603380	192/2HXL	5	77
619803	192/2HXL	5	77
603381	192/2HXL	6	77
619805	192/2HXL	6	77
603383	192/2HXL	7	77
603384	192/2HXL	8	77
619806	192/2HXL	8	77
603386	192/2HXL	10	77
619807	192/2HXL	10	77
603455	192/2HXL	12	77
619415	192/2HXL	14	77
607314	191MB1	9	78
600978	192/2HX	4	78
603420	192/2HX	5	78
603421	192/2HX	6	78
603422	192/2HX	7	78
603423	192/2HX	8	78
605923	192/2HX	9	78
603424	192/2HX	10	78
603425	192/2HX	12	78
624033	192/2HX	13	78
603426	192/2HX	14	78
624034	192/2HX	1	78
603427	192/2HX	17	78
603428	192/2HX	19	78
623141	192/2HX	22	78
623142	192/2HX	24	78
619894	192/2HX	3/16"	78

619895	192/2HX	7/32"	78
619896	192/2HX	1/4"	78
619898	192/2HX	5/16"	78
619899	192/2HX	3/8"	78
619900	192/2HX	1/2"	78
619901	192/2HX	9/16"	78
619902	192/2HX	5/8"	78
619904	192/2HX	3/4"	78
605562	192/2TX	TX 20	78
605563	192/2TX	TX 25	78
605564	192/2TX	TX 27	78
605565	192/2TX	TX 30	78
605566	192/2TX	TX 40	78
605567	192/2TX	TX 45	78
605568	192/2TX	TX 50	78
605569	192/2TX	TX 55	78
605570	192/2TX	TX 60	78
612422	192/2TXL	TX 20	78
612423	192/2TXL	TX 25	78
612424	192/2TXL	TX 27	78
612425	192/2TXL	TX 30	78
612426	192/2TXL	TX 40	78
612427	192/2TXL	TX 45	78
612428	192/2TXL	TX 50	78
612429	192/2TXL	TX 55	78
612430	192/2TXL	TX 60	78
619857	192/2TXL	TX 70	78
619858	192/2TXL	TX 80	78
619859	192/2TXL	TX 90	78
619860	192/2TXL	TX 100	78
612165	192/2ZX	M5	79
612166	192/2ZX	M6	79
612167	192/2ZX	M8	79
612168	192/2ZX	M10	79
612169	192/2ZX	M12	79
612170	192/2ZX	M14	79
620257	192/2ZX	M16	79
612171	192/2ZXL	M6	79
612172	192/2ZXL	M8	79
612173	192/2ZXL	M10	79
612174	192/2ZXL	M12	79
619845	192/2ZXL	M14	79
620258	192/2ZXL	M16	79
603657	192/12	9	79
621759	192/14INCH	3/16" - 3/4" / 9	79
617125	192/15	10	79
619416	192/16	5 - 100 / 7	79
619417	192/17	TX 20 - TX 50 / 7	80
619418	192/18	1/4" - 3/4" / 6	80
607064	192/14	9	80
622624	192/19	M 5 - M 14 / 9	80
611782	190.1/1ABI	1/2"	81
612504	190.11	12	81
618369	190.1/1FBI	1/2"	81
611899	190.2/1BI	1/2"	81
611900	190.2/1BI	1/2"	81
600876	190.3/1	1/2"	82
607955	190.4/1	1/2"	82
600874	190.4/1	1/2"	82
600875	190.4/1	1/2"	82
610909	190.4/1S	1/2"	82
610908	190.4/1S	1/2"	82
610907	190.4/1S	1/2"	82
612565	190.4/2	1/2"	82
610933	190.5/2	1/2"	82
600873	190.6/2	1/2"	82
603334	190.7/2	1/2"	82
607975	190.7/2	1/2"	82
600909	190.9/2BI	1/2"	83
603378	190.10	1/2"	83
620856	190.12	1/2" - 1/4"	83
619090	190H	330	83
619237	190H	450	83
619412	190H1	27	83
622635	190H12P15	10 - 32 / 15	84
622634	190H12P15IN	3/8" - 1.1/4" / 15	84
622636	190H12LP7	13 - 24 / 7	84
611940	190BI6P14	10 - 24 / 14	84
612779	190BI6P23	10 - 32 / 23	84
611939	190BI6P24	10 - 32 / 24	84
611942	190BI12P14	10 - 24 / 14	84
615327	190BI12P23	10 - 32 / 23	85
611941	190BI12P24	10 - 32 / 24	85
611944	190BI6P43	4 - 32 / 43	85
611943	190BI12P23IN	3/8" - 1.1/4" / 23	85
615180	190BI6P22IN	5/16" - 1.1/4" / 22	85
611945	190BITX1P22	22	85
611946	190BIHX1P20	20	86
612162	190BI6P28	10 - 32 / 28	86
622022	190-6P17	10 - 32 / 17	86
622023	190BI6P17	10 - 32 / 17	86
623921	607MD6	10 - 32 / 109	86
619698	197/1 6p	19	86
602723	197/1 6p	22	86
602724	197/1 6p	23	86
602725	197/1 6p	24	86
602726	197/1 6p	26	86
602727	197/1 6p	27	86
602728	197/1 6p	28	86
619702	197/1 6p	29	86
602729	197/1 6p	30	86
602730	197/1 6p	32	86
602731	197/1 6p	34	87
619701	197/1 6p	35	87
602732	197/1 6p	36	87
602733	197/1 6p	38	87
602734	197/1 6p	41	87
602735	197/1 6p	46	87
602736	197/1 6p	50	87
617527	197/1 6p	55	87
603135	197/1 6p	60	87
609383	197/1 6p	7/8"	87
609384	197/1 6p	15/16"	87
609385	197/1 6p	1"	87
609386	197/1 6p	1.1/16"	87
609387	197/1 6p	1.1/8"	87
609388	197/1 6p	1.1/4"	87
609389	197/1 6p	1.5/16"	87
609390	197/1 6p	1.3/8"	87
609391	197/1 6p	1.7/16"	87
609392	197/1 6p	1.1/2"	87
609393	197/1 6p	1.5/8"	87
609394	197/1 6p	1.11/16"	87
609395	197/1 6p	1.13/16"	87
609396	197/1 6p	1.7/8"	87
609397	197/1 6p	2"	87
609398	197/1 6p	2.1/16"	87
618666	197/1 12p	22	87
618667	197/1 12p	23	87
618668	197/1 12p	24	87
618669	197/1 12p	26	87
618670	197/1 12p	27	87
618671	197/1 12p	28	87
619703	197/1 12p	29	87
618672	197/1 12p	30	87
618673	197/1 12p	32	87
618674	197/1 12p	34	87
618675	197/1 12p	36	87
618676	197/1 12p	38	87
618677	197/1 12p	41	87
618678	197/1 12p	46	87
618679	197/1 12p	50	87
618680	197/1 12p	55	87
618681	197/1 12p	60	87
619836	197/2AHX	14	87
619837	197/2AHX	17	87
619838	197/2AHX	19	87
619839	197/2AHX	22	87
619840	197/2ATX	60	87
619841	197/2ATX	70	87
619842	197/2ATX	80	87
619843	197/2ATX	90	87
619844	197/2ATX	100	87
620818	197/2AZX	M18	87
602737	197.1/1	3/4"	88
616806	197.11	11	88
602738	197.3/1	3/4"	88
602739	197.4/1	3/4"	88
602740	197.4/1	3/4"	88
617657	197.6/1	3/4"	88
602741	197.7/1	3/4" - 1/2"	88
610695	197.7/1	3/4" - 1"	88
602742	197MB1	22 - 46 / 14	89
600954	197MB2	22 - 50 / 14	89
617119	197MB3	7/8" - 1.7/8" / 14	89
619927	197MB4	22 - 55 / 15	89
603096	199/1 6p	46	89
603097	199/1 6p	50	89
603098	199/1 6p	55	89
603099	199/1 6p	60	89
603100	199/1 6p	65	89
603101	199/1 6p	70	89
603102	199/1 6p	75	89
603103	199/1 6p	80	89
618699	199/1 12p	65	89
9249083	5014	70	90
9249093	5014	75	90
9249103	5014	80	90
603104	199.1/1	1"	90
616807	199.11	11	90
603105	199.3/1	1"	90
603107	199.4/1	1"	90
603106	199.4/1	1"	90
617658	199.6/1	1"	90
619905	199.7/1	1" - 3/4"	90
603095	199MB1	46 - 80 / 12	90
04M04	04M 1/4"	4 mm	91
04M05	04M 1/4"	5 mm	91
04M06	04M 1/4"	6 mm	91
04M07	04M 1/4"	7 mm	91
04M08	04M 1/4"	8 mm	91
04M09	04M 1/4"	9 mm	91
04M10	04M 1/4"	10 mm	91
04M11	04M 1/4"	11 mm	91
04M12	04M 1/4"	12 mm	91
04M13	04M 1/4"	13 mm	91
04M14	04M 1/4"	14 mm	91
403	04M 1/4"	3/16"	91
4035	04M 1/4"	7/32"	91
404	04M 1/4"	1/4"	91
4045	04M 1/4"	9/32"	91
405	04M 1/4"	5/16"	91
4055	04M 1/4"	11/32"	91
406	04M 1/4"	3/8"	91
407	04M 1/4"	7/16"	91
408	04M 1/4"	1/2"	91
409	04M 1/4"	9/16"	91
04M04L	04ML 1/4"	4 mm	91
04M05L	04ML 1/4"	5 mm	91
04M06L	04ML 1/4"	6 mm	91
04M07L	04ML 1/4"	7 mm	91
04M08L	04ML 1/4"	8 mm	91
04M09L	04ML 1/4"	9 mm	91
04M10L	04ML 1/4"	10 mm	91
04M11L	04ML 1/4"	11 mm	91
04M12L	04ML 1/4"	12 mm	91
04M13L	04ML 1/4"	13 mm	91
04M14L	04ML 1/4"	14 mm	91
04M15L	04ML 1/4"	15 mm	91
0403L	04ML 1/4"	3/16"	91
04035L	04ML 1/4"	7/32"	91
0404L	04ML 1/4"	1/4"	91
04045L	04ML 1/4"	9/32"	91
0405L	04ML 1/4"	5/16"	91
04055L	04ML 1/4"	11/32"	91
0406L	04ML 1/4"	3/8"	91
0407L	04ML 1/4"	7/16"	91
0408L	04ML 1/4"	1/2"	91
0409L	04ML 1/4"	9/16"	91
612060	230/4 6p	8	92
612061	230/4 6p	9	92
612062	230/4 6p	10	92
612063	230/4 6p	11	92
612064	230/4 6p	12	92
612065	230/4 6p	13	92
612066	230/4 6p	14	92
612067	230/4 6p	15	92
612068	230/4 6p	16	92
612069	230/4 6p	17	92
612070	230/4 6p	18	92
612071	230/4 6p	19	92
612072	230/4 6p	20	92
612073	230/4 6p	21	92
612074	230/4 6p	22	92
612075	230.4/4	3/8"	92
612076	230.4/4	3/8"	92
612077	230.6/4	3/8"	92
612078	230.7/4	3/8" - 1/2"	92
612079	230.8/4	6 - 12	92
612080	230.8/5	13 - 21	92
612081	230.8/6	22 - 22	92
612590	230/4MB1	8 - 22 / 16	92
06M6	06M 3/8"	6	93
06M7	06M 3/8"	7	93
06M8	06M 3/8"	8	93
06M9	06M 3/8"	9	93
06M10	06M 3/8"	10	93
06M11	06M 3/8"	11	93
06M12	06M 3/8"	12	93
06M13	06M 3/8"	13	93
06M14	06M 3/8"	14	93
06M15	06M 3/8"	15	93
06M16	06M 3/8"	16	93
06M17	06M 3/8"	17	93
06M18	06M 3/8"	18	93
0612M19	06M 3/8"	19	93
06M20	06M 3/8"	20	93
06M21	06M 3/8"	21	93
06M22	06M 3/8"	22	93
06M23	06M 3/8"	23	93
606	06M 3/8"	3/8"	93
607	06M 3/8"	7/16"	93
608	06M 3/8"	1/2"	93
609	06M 3/8"	9/16"	93
610	06M 3/8"	5/8"	93
611	06M 3/8"	11/16"	93
0612M19 inch	06M 3/8"	3/4"	93
613	06M 3/8"	13/16"	93
614	06M 3/8"	7/8"	93
06M06M	06MM 3/8"	6	93
06M07M	06MM 3/8"	7	93
06M08M	06MM 3/8"	8	93
06M09M	06MM 3/8"	9	93
06M10M	06MM 3/8"	10	93
06M11M	06MM 3/8"	11	93
06M12M	06MM 3/8"	12	93
06M13M	06MM 3/8"	13	93
06M14M	06MM 3/8"	14	93
06M15M	06MM 3/8"	15	93
06M16M	06MM 3/8"	16	93
06M17M	06MM 3/8"	17	93
06M18M	06MM 3/8"	18	93
0612M19M	06MM 3/8"	19	93
0606M	06MM 3/8"	3/8"	93
0607M	06MM 3/8"	7/16"	93
0608M	06MM 3/8"	1/2"	93
0609M	06MM 3/8"	9/16"	93
0610M	06MM 3/8"	5/8"	93
0611M	06MM 3/8"	11/16"	93
0612M19M inch	06MM 3/8"	3/4"	93
06M6L	06ML 3/8"	6	93
06M7L	06ML 3/8"	7	93
06M8L	06ML 3/8"	8	93
06M9L	06ML 3/8"	9	93
06M10L	06ML 3/8"	10	93
06M11L	06ML 3/8"	11	93
06M12L	06ML 3/8"	12	93
06M13L	06ML 3/8"	13	93
06M14L	06ML 3/8"	14	93
06M15L	06ML 3/8"	15	93
06M16L	06ML 3/8"	16	93
06M17L	06ML 3/8"	17	93
06M18W06L	06ML 3/8"	18	93
0612M19L	06ML 3/8"	19	93
06M20L	06ML 3/8"	20	93
06M21L	06ML 3/8"	21	93
06M22L	06ML 3/8"	22	93
06M23L	06ML 3/8"	23	93

0606L	06ML 3/8"	3/8"	93
0607L	06ML 3/8"	7/16"	93
0608L	06ML 3/8"	1/2"	93
0609L	06ML 3/8"	9/16"	93
0610L	06ML 3/8"	5/8"	93
0611L	06ML 3/8"	11/16"	93
0612M19Linch	06ML 3/8"	3/4"	93
0613L	06ML 3/8"	13/16"	93
0614L	06ML 3/8"	7/8"	93
06M06LM	06MLM 3/8"	6	93
06M07LM	06MLM 3/8"	7	93
06M08LM	06MLM 3/8"	8	93
06M09LM	06MLM 3/8"	9	93
06M10LM	06MLM 3/8"	10	93
06M11LM	06MLM 3/8"	11	93
06M12LM	06MLM 3/8"	12	93
06M13LM	06MLM 3/8"	13	93
06M14LM	06MLM 3/8"	14	93
06M15LM	06MLM 3/8"	15	93
06M16LM	06MLM 3/8"	16	93
06M17LM	06MLM 3/8"	17	93
06M18LM	06MLM 3/8"	18	93
0612M19LM	06MLM 3/8"	19	93
0606LM	06MLM 3/8"	3/8"	93
0607LM	06MLM 3/8"	7/16"	93
0608LM	06MLM 3/8"	1/2"	93
0609LM	06MLM 3/8"	9/16"	93
0610LM	06MLM 3/8"	5/8"	93
0611LM	06MLM 3/8"	11/16"	93
0612M19LMinch	06MLM 3/8"	3/4"	93
06E05	06E 3/8"	E5	94
06E06	06E 3/8"	E6	94
06E07	06E 3/8"	E7	94
06E08	06E 3/8"	E8	94
06E10	06E 3/8"	E10	94
06E11	06E 3/8"	E11	94
06E12	06E 3/8"	E12	94
06E14	06E 3/8"	E14	94
06E16	06E 3/8"	E16	94
A0608	A06 3/8"	3/8"	94
QACD06	QACD06 3/8"	3/8"	94
Q0606	Q0606 3/8"	3/8"	94
E0603	E060 3/8"	3/8"	94
E0604	E060 3/8"	3/8"	94
E0605	E060 3/8"	3/8"	94
E0606	E060 3/8"	3/8"	94
P0619	R06 3/8"	3/8"	94
P0622	R06 3/8"	3/8"	94
R0619	R06 3/8"	3/8"	94
R0622	R06 3/8"	3/8"	94
LOV06M06	LOV06M 3/8"	6	94
LOV06M07	LOV06M 3/8"	7	94
LOV06M08	LOV06M 3/8"	8	94
LOV06M09	LOV06M 3/8"	9	94
LOV06M10	LOV06M 3/8"	10	94
LOV06M11	LOV06M 3/8"	11	94
LOV06M12	LOV06M 3/8"	12	94
LOV06M13	LOV06M 3/8"	13	94
LOV06M14	LOV06M 3/8"	14	94
LOV06M15	LOV06M 3/8"	15	94
LOV06M16	LOV06M 3/8"	16	94
LOV06M17	LOV06M 3/8"	17	94
LOV06M18	LOV06M 3/8"	18	94
LOV0612M19	LOV06M 3/8"	19	94
LOV06M20	LOV06M 3/8"	20	94
LOV06M21	LOV06M 3/8"	21	94
LOV0606	LOV06M 3/8"	3/8"	94
LOV0607	LOV06M 3/8"	7/16"	94
LOV0608	LOV06M 3/8"	1/2"	94
LOV0609	LOV06M 3/8"	9/16"	94
LOV0610	LOV06M 3/8"	5/8"	94
LOV0611	LOV06M 3/8"	11/16"	94
LOV0612M19inch	LOV06M 3/8"	3/4"	94
LOV0613	LOV06M 3/8"	13/16"	94
LOV06M06L100	LOV06ML100 3/8"	6	95
LOV06M07L100	LOV06ML100 3/8"	7	95
LOV06M08L100	LOV06ML100 3/8"	8	95
LOV06M09L100	LOV06ML100 3/8"	9	95
LOV06M10L100	LOV06ML100 3/8"	10	95
LOV06M11L100	LOV06ML100 3/8"	11	95
LOV06M12L100	LOV06ML100 3/8"	12	95
LOV06M13L100	LOV06ML100 3/8"	13	95
LOV06M14L100	LOV06ML100 3/8"	14	95
LOV06M15L100	LOV06ML100 3/8"	15	95
LOV06M16L100	LOV06ML100 3/8"	16	95
LOV06M17L100	LOV06ML100 3/8"	17	95
LOV06M18L100	LOV06ML100 3/8"	18	95
LOV0612M19L100	LOV06ML100 3/8"	19	95
LOV06M20L100	LOV06ML100 3/8"	20	95
LOV06M21L100	LOV06ML100 3/8"	21	95
LOV0606L100	LOV06ML100 3/8"	3/8"	95
LOV0607L100	LOV06ML100 3/8"	7/16"	95
LOV0608L100	LOV06ML100 3/8"	1/2"	95
LOV0609L100	LOV06ML100 3/8"	9/16"	95
LOV0610L100	LOV06ML100 3/8"	5/8"	95
LOV0611L100	LOV06ML100 3/8"	11/16"	95
LOV0612M-19L100inch	LOV06ML100 3/8"	3/4"	95
LOV0613L100	LOV06ML100 3/8"	13/16"	95
LOV06M06L150	LOV06ML150 3/8"	6	95
LOV06M07L150	LOV06ML150 3/8"	7	95
LOV06M08L150	LOV06ML150 3/8"	8	95
LOV06M09L150	LOV06ML150 3/8"	9	95
LOV06M10L150	LOV06ML150 3/8"	10	95
LOV06M11L150	LOV06ML150 3/8"	11	95
LOV06M12L150	LOV06ML150 3/8"	12	95
LOV06M13L150	LOV06ML150 3/8"	13	95
LOV06M14L150	LOV06ML150 3/8"	14	95
LOV06M15L150	LOV06ML150 3/8"	15	95
LOV06M16L150	LOV06ML150 3/8"	16	95
LOV06M17L150	LOV06ML150 3/8"	17	95
LOV06M18L150	LOV06ML150 3/8"	18	95
LOV0612M19L150	LOV06ML150 3/8"	19	95
LOV06M20L150	LOV06ML150 3/8"	20	95
LOV06M21L150	LOV06ML150 3/8"	21	95
LOV0606L150	LOV06ML150 3/8"	3/8"	95
LOV0607L150	LOV06ML150 3/8"	7/16"	95
LOV0608L150	LOV06ML150 3/8"	1/2"	95
LOV0609L150	LOV06ML150 3/8"	9/16"	95
LOV0610L150	LOV06ML150 3/8"	5/8"	95
LOV0611L150	LOV06ML150 3/8"	11/16"	95
LOV0612M-19L150inch	LOV06ML150 3/8"	3/4"	95
LOV0613L150	LOV06ML150 3/8"	13/16"	95
LOV06M06L200	LOV06ML200 3/8"	6	95
LOV06M07L200	LOV06ML200 3/8"	7	95
LOV06M08L200	LOV06ML200 3/8"	8	95
LOV06M09L200	LOV06ML200 3/8"	9	95
LOV06M10L200	LOV06ML200 3/8"	10	95
LOV06M11L200	LOV06ML200 3/8"	11	95
LOV06M12L200	LOV06ML200 3/8"	12	95
LOV06M13L200	LOV06ML200 3/8"	13	95
LOV06M14L200	LOV06ML200 3/8"	14	95
LOV06M15L200	LOV06ML200 3/8"	15	95
LOV06M16L200	LOV06ML200 3/8"	16	95
LOV06M17L200	LOV06ML200 3/8"	17	95
LOV06M18L200	LOV06ML200 3/8"	18	95
LOV0612M19L200	LOV06ML200 3/8"	19	95
LOV06M20L200	LOV06ML200 3/8"	20	95
LOV06M21L200	LOV06ML200 3/8"	21	95
LOV0606L200	LOV06ML200 3/8"	3/8"	95
LOV0607L200	LOV06ML200 3/8"	7/16"	95
LOV0608L200	LOV06ML200 3/8"	1/2"	95
LOV0609L200	LOV06ML200 3/8"	9/16"	95
LOV0610L200	LOV06ML200 3/8"	5/8"	95
LOV0611L200	LOV06ML200 3/8"	11/16"	95
LOV0612M-19L200inch	LOV06ML200 3/8"	3/4"	95
LOV0613L200	LOV06ML200 3/8"	13/16"	95
SET-06-01	SET-06-01 3/8"	8-19 mm / 8 piese	95
SET-06-02	SET-06-02 3/8"	8-19 mm / 8 piese	95
UB06M9	UB06 3/8"	9	96
UB06M10	UB06 3/8"	10	96
UB06M11	UB06 3/8"	11	96
UB06M12	UB06 3/8"	12	96
UB06M13	UB06 3/8"	13	96
UB06M14	UB06 3/8"	14	96
UB06M15	UB06 3/8"	15	96
UB06M16	UB06 3/8"	16	96
UB06M17	UB06 3/8"	17	96
UB06M18	UB06 3/8"	18	96
UB06M19	UB06 3/8"	19	96
UB06M20	UB06 3/8"	20	96
UB06M21	UB06 3/8"	21	96
UB06M22	UB06 3/8"	22	96
UB0606	UB06 3/8"	3/8"	96
UB0607	UB06 3/8"	7/16"	96
UB0608	UB06 3/8"	1/2"	96
UB0609	UB06 3/8"	9/16"	96
UB0610	UB06 3/8"	5/8"	96
UB0611	UB06 3/8"	11/16"	96
UB0612	UB06 3/8"	3/4"	96
UB0613	UB06 3/8"	13/16"	96
UB0614	UB06 3/8"	7/8"	96
UB06M9L	UB06L 3/8"	9	96
UB06M10L	UB06L 3/8"	10	96
UB06M11L	UB06L 3/8"	11	96
UB06M12L	UB06L 3/8"	12	96
UB06M13L	UB06L 3/8"	13	96
UB06M14L	UB06L 3/8"	14	96
UB06M15L	UB06L 3/8"	15	96
UB06M16L	UB06L 3/8"	16	96
UB06M17L	UB06L 3/8"	17	96
UB06M18L	UB06L 3/8"	18	96
UB06M19L	UB06L 3/8"	19	96
UB06M20L	UB06L 3/8"	20	96
UB06M21L	UB06L 3/8"	21	96
UB06M22L	UB06L 3/8"	22	96
UB0606L	UB06L 3/8"	3/8"	96
UB0607L	UB06L 3/8"	7/16"	96
OB0608L	UB06L 3/8"	1/2"	96
UB0609L	UB06L 3/8"	9/16"	96
UB0610L	UB06L 3/8"	5/8"	96
UB0611L	UB06L 3/8"	11/16"	96
UB0612L	UB06L 3/8"	3/4"	96
UB0613L	UB06L 3/8"	13/16"	96
UB0614L	UB06L 3/8"	7/8"	96
603962	231/4 6p	10	96
603963	231/4 6p	11	96
603964	231/4 6p	12	96
603965	231/4 6p	13	96
603966	231/4 6p	14	96
603967	231/4 6p	15	96
603968	231/4 6p	16	96
603969	231/4 6p	17	96
609399	231/4 6p	18	96
603970	231/4 6p	19	96
603971	231/4 6p	21	96
603972	231/4 6p	22	96
603973	231/4 6p	23	96
603974	231/4 6p	24	96
603975	231/4 6p	27	96
609400	231/4 6p	28	96
603976	231/4 6p	30	96
605548	231/4 6p	32	96
607918	231/4L6p	10	96
607919	231/4L6p	11	96
607920	231/4L6p	12	96
607921	231/4L6p	13	96
607922	231/4L6p	14	96
607923	231/4L6p	15	96
607924	231/4L6p	16	96
607925	231/4L6p	17	96
609401	231/4L6p	18	96
607926	231/4L6p	19	96
607927	231/4L6p	21	96
607928	231/4L6p	22	96
607929	231/4L6p	23	96
607930	231/4L6p	24	96
607931	231/4L6p	27	96
609402	231/4L6p	28	96
607932	231/4L6p	30	96
607933	231/4L6p	32	96
08M8	08 1/2"	8	97
08M9	08 1/2"	9	97
08M10	08 1/2"	10	97
08M11	08 1/2"	11	97
08M12	08 1/2"	12	97
08M13	08 1/2"	13	97
08M14	08 1/2"	14	97
08M15	08 1/2"	15	97
08M16	08 1/2"	16	97
08M17	08 1/2"	17	97
08M18	08 1/2"	18	97
0812M19	08 1/2"	19	97
08M20	08 1/2"	20	97
08M21	08 1/2"	21	97
08M22	08 1/2"	22	97
08M23	08 1/2"	23	97
08M24	08 1/2"	24	97
08M25	08 1/2"	25	97
08M26	08 1/2"	26	97
0817M27	08 1/2"	27	97
08M28	08 1/2"	28	97
08M29	08 1/2"	29	97
0819M30	08 1/2"	30	97
08M31	08 1/2"	31	97
08M32	08 1/2"	32	97
08M33	08 1/2"	33	97
08M34	08 1/2"	34	97
0822M35	08 1/2"	35	97
08M36	08 1/2"	36	97
08M37	08 1/2"	37	97
0824M38	08 1/2"	38	97
806	08 1/2"	3/8"	97
807	08 1/2"	7/16"	97
808	08 1/2"	1/2"	97
809	08 1/2"	9/16"	97
810	08 1/2"	5/8"	97
811	08 1/2"	11/16"	97
0812M19inch	08 1/2"	3/4"	97
813	08 1/2"	13/16"	97
814	08 1/2"	7/8"	97
815	08 1/2"	15/16"	97
816	08 1/2"	1"	97
0817M27inch	08 1/2"	1 1/16"	97
818	08 1/2"	1 1/8"	97
0819M30inch	08 1/2"	1 3/16"	97
820	08 1/2"	1 1/4"	97
821	08 1/2"	1 5/16"	97
0822M35inch	08 1/2"	1 3/8"	97
823	08 1/2"	1 7/16"	97
0824M38inch	08 1/2"	1 1/2"	97
08M8L	08L 1/2"	8	97
08M9L	08L 1/2"	9	97
08M10L	08L 1/2"	10	97
08M11L	08L 1/2"	11	97
08M12L	08L 1/2"	12	97
08M13L	08L 1/2"	13	97
08M14L	08L 1/2"	14	97
08M15L	08L 1/2"	15	97
08M16L	08L 1/2"	16	97
08M17L	08L 1/2"	17	97
08M18L	08L 1/2"	18	97
0812M19L	08L 1/2"	19	97
08M20L	08L 1/2"	20	97
08M21L	08L 1/2"	21	97
08M22L	08L 1/2"	22	97
08M23L	08L 1/2"	23	97
08M24L	08L 1/2"	24	97
08M25L	08L 1/2"	25	97
08M26L	08L 1/2"	26	97
0817M27L	08L 1/2"	27	97
08M28L	08L 1/2"	28	97
08M29L	08L 1/2"	29	97
0819M30L	08L 1/2"	30	97
08M31L	08L 1/2"	31	97
08M32L	08L 1/2"	32	97
08M33L	08L 1/2"	33	97
08M34L	08L 1/2"	34	97
0822M35L	08L 1/2"	35	97
08M36L	08L 1/2"	36	97
08M37L	08L 1/2"	37	97
0824M38L	08L 1/2"	38	97
0806L	08L 1/2"	3/8"	97
0807L	08L 1/2"	7/16"	97
0808L	08L 1/2"	1/2"	97
0809L	08L 1/2"	9/16"	97

0810L	08L 1/2"	5/8"	97
0811L	08L 1/2"	11/16"	97
0812M19Linch	08L 1/2"	3/4"	97
0813L	08L 1/2"	13/16"	97
0814L	08L 1/2"	7/8"	97
0815L	08L 1/2"	15/16"	97
0816L	08L 1/2"	1"	97
0817M27Linch	08L 1/2"	1 1/16"	97
0818L	08L 1/2"	1 1/8"	97
0819M30Linch	08L 1/2"	1 3/16"	97
0820L	08L 1/2"	1 1/4"	97
0821L	08L 1/2"	1 5/16"	97
0822M35Linch	08L 1/2"	1 3/8"	97
0823L	08L 1/2"	1 7/16"	97
0824M38Linch	08L 1/2"	1 1/2"	97
08M17K	08K 1/2"	117	97
0812M19K	08K 1/2"	19	97
0812M19Kinch	08K 1/2"	3/4"	97
08M13T	08T 1/2"	13	98
08M14T	08T 1/2"	14	98
08M15T	08T 1/2"	15	98
08M16T	08T 1/2"	16	98
08M17T	08T 1/2"	17	98
08M18T	08T 1/2"	18	98
0812M19T	08T 1/2"	19	98
08M20T	08T 1/2"	20	98
08M21T	08T 1/2"	21	98
08M22T	08T 1/2"	22	98
08M23T	08T 1/2"	23	98
08M24T	08T 1/2"	24	98
0809T	08T 1/2"	9/16"	98
0810T	08T 1/2"	5/8"	98
0811T	08T 1/2"	11/16"	98
0812M19Tinch	08T 1/2"	3/4"	98
0813T	08T 1/2"	13/16"	98
0814T	08T 1/2"	7/8"	98
0815T	08T 1/2"	15/16"	98
08M13LT	08LT 1/2"	13	98
08M14LT	08LT 1/2"	14	98
08M15LT	08LT 1/2"	15	98
08M16LT	08LT 1/2"	16	98
08M17LT	08LT 1/2"	17	98
08M18LT	08LT 1/2"	18	98
0812M19LT	08LT 1/2"	19	98
08M20LT	08LT 1/2"	20	98
08M21LT	08LT 1/2"	21	98
08M22LT	08LT 1/2"	22	98
08M23LT	08LT 1/2"	23	98
08M24LT	08LT 1/2"	24	98
0809LT	08LT 1/2"	9/16"	98
0810LT	08LT 1/2"	5/8"	98
0811LT	08LT 1/2"	11/16"	98
0812M19LTinch	08LT 1/2"	3/4"	98
0813LT	08LT 1/2"	13/16"	98
0814LT	08LT 1/2"	7/8"	98
0815LT	08LT 1/2"	15/16"	98
08M13SD	08SD 1/2"	13	98
08M14SD	08SD 1/2"	14	98
08M15SD	08SD 1/2"	15	98
08M16SD	08SD 1/2"	16	98
08M17SD	08SD 1/2"	17	98
08M18SD	08SD 1/2"	18	98
0812M19SD	08SD 1/2"	19	98
08M20SD	08SD 1/2"	20	98
08M21SD	08SD 1/2"	21	98
08M22SD	08SD 1/2"	22	98
0808SD	08SD 1/2"	1/2"	98
0809SD	08SD 1/2"	9/16"	98
0810SD	08SD 1/2"	5/8"	98
0811SD	08SD 1/2"	11/16"	98
0812M19SDinch	08SD 1/2"	3/4"	98
0813SD	08SD 1/2"	13/16"	98
0814SD	08SD 1/2"	7/8"	98
08M13SDL	08SDL 1/2"	13	98
08M14SDL	08SDL 1/2"	14	98
08M15SDL	08SDL 1/2"	15	98
08M16SDL	08SDL 1/2"	16	98
08M17SDL	08SDL 1/2"	17	98
08M18SDL	08SDL 1/2"	18	98
0812M19SDL	08SDL 1/2"	19	98
08M20SDL	08SDL 1/2"	20	98
08M21SDL	08SDL 1/2"	21	98
08M22SDL	08SDL 1/2"	22	98
0808SDL	08SDL 1/2"	1/2"	98
0809SDL	08SDL 1/2"	9/16"	98
0810SDL	08SDL 1/2"	5/8"	98
0811SDL	08SDL 1/2"	11/16"	98
0812M19SDLinch	08SDL 1/2"	3/4"	98
0813SDL	08SDL 1/2"	13/16"	98
0814SDL	08SDL 1/2"	7/8"	98
08M17DH	08SDH 1/2"	17	99
08M18DH	08SDH 1/2"	18	99
0812M19DH	08SDH 1/2"	19	99
08M20DH	08SDH 1/2"	20	99
08M21DH	08SDH 1/2"	21	99
08M22DH	08SDH 1/2"	22	99
08M23DH	08SDH 1/2"	23	99
08M24DH	08SDH 1/2"	24	99
08M25DH	08SDH 1/2"	25	99
08M26DH	08SDH 1/2"	26	99
0817M27DH	08SDH 1/2"	27	99
08M28DH	08SDH 1/2"	28	99
08M29DH	08SDH 1/2"	29	99
0819M30DH	08SDH 1/2"	30	99
08M31DH	08SDH 1/2"	31	99
08M32DH	08SDH 1/2"	32	99
08M33DH	08SDH 1/2"	33	99
08M34DH	08SDH 1/2"	34	99
0822M35DH	08SDH 1/2"	35	99
08M36DH	08SDH 1/2"	36	99
08M37DH	08SDH 1/2"	37	99
0824M38DH	08SDH 1/2"	38	99
0811DH	08SDH 1/2"	11/16"	99
0812M19DHinch	08SDH 1/2"	3/4"	99
0813DH	08SDH 1/2"	13/16"	99
0814DH	08SDH 1/2"	7/8"	99
0815DH	08SDH 1/2"	15/16"	99
0816DH	08SDH 1/2"	1"	99
0817M27DHinch	08SDH 1/2"	1 1/16"	99
0818DH	08SDH 1/2"	1 1/8"	99
0819M30DHinch	08SDH 1/2"	1 3/16"	99
0820DH	08SDH 1/2"	1 1/4"	99
0821DH	08SDH 1/2"	1 5/16"	99
0822M35DHinch	08SDH 1/2"	1 3/8"	99
0823DH	08SDH 1/2"	1 7/16"	99
0824M38DHinch	08SDH 1/2"	1 1/2"	99
616767	231/4P.1	17	99
616768	231/4P.2	19	99
616769	231/4P.3	21	99
619965	231/4PPB	17 - 21 / 3	99
619015	231/4PL	17	99
619016	231/4PL	19	99
619017	231/4PL	21	99
616763	231/4P	17	99
616764	231/4P	19	99
616765	231/4P	21	99
612880	231/4TX	E 10	100
612881	231/4TX	E 12	100
612882	231/4TX	E 14	100
612883	231/4TX	E 16	100
612884	231/4TX	E 18	100
612885	231/4TX	E 20	100
612886	231/4TX	E 24	100
08E10	08E 1/2"	E10	100
08E11	08E 1/2"	E11	100
08E12	08E 1/2"	E12	100
08E14	08E 1/2"	E14	100
08E16	08E 1/2"	E16	100
08E18	08E 1/2"	E18	100
08E20	08E 1/2"	E20	100
08E22	08E 1/2"	E22	100
08E24	08E 1/2"	E24	100
08T30	08T 1/2"	T30	100
08T40	08T 1/2"	T40	100
08T50	08T 1/2"	T50	100
08T55	08T 1/2"	T55	100
08T60	08T 1/2"	T60	100
08T71	08T 1/2"	T71	100
HT30	HT 1/2"	T30	100
HT40	HT 1/2"	T40	100
HT50	HT 1/2"	T50	100
HT55	HT 1/2"	T55	100
HT60	HT 1/2"	T60	100
HT70	HT 1/2"	T70	100
08H11	08H 1/2"	T30 - T40 - T50	100
08H16	08H 1/2"	T55 - T60 - T70	100
612874	231/4ATX	TX 30	101
612875	231/4ATX	TX 40	101
612876	231/4ATX	TX 45	101
612877	231/4ATX	TX 50	101
612878	231/4ATX	TX 55	101
612879	231/4ATX	TX 60	101
618761	231/4ATX	TX 70	101
615218	231/4AHX	5	101
615219	231/4AHX	6	101
615220	231/4AHX	8	101
615221	231/4AHX	10	101
615222	231/4AHX	12	101
615223	231/4AHX	14	101
615224	231/4AHX	17	101
615225	231/4AHX	19	101
08H11	08H 1/2"	3-8 mm si 1/8"-5/16"	101
08H16	08H 1/2"	9-16 mm si 3/8"-5/8"	101
08H22	08H 1/2"	17-22 mm si 3/4"-7/8"	101
08M03V	08V 1/2"	3	101
08M04V	08V 1/2"	4	101
08M05V	08V 1/2"	5	101
08M06V	08V 1/2"	6	101
08M07V	08V 1/2"	7	101
08M08V	08V 1/2"	8	101
08M09V	08V 1/2"	9	101
08M10V	08V 1/2"	10	101
08M11V	08V 1/2"	11	101
08M12V	08V 1/2"	12	101
08M13V	08V 1/2"	13	101
08M14V	08V 1/2"	14	101
08M15V	08V 1/2"	15	101
08M16V	08V 1/2"	16	101
08M17V	08V 1/2"	17	101
08M18V	08V 1/2"	18	101
08M19V	08V 1/2"	19	101
0802V	08V 1/2"	1/8"	101
08025V	08V 1/2"	5/32"	101
0803V	08V 1/2"	3/16"	101
08035V	08V 1/2"	7/32"	101
0804V	08V 1/2"	1/4"	101
0805V	08V 1/2"	5/16"	101
0806V	08V 1/2"	3/8"	101
0807V	08V 1/2"	7/16"	101
0808V	08V 1/2"	1/2"	101
0809V	08V 1/2"	9/16"	101
0810V	08V 1/2"	5/8"	101
QACD08	QACD08 1/2"	1/2"	101
08M17AP	08AP 1/2"	17	102
0812M19AP	08AP 1/2"	19	102
08014AP	08AP 1/2"	20	102
08M21AP	08AP 1/2"	21	102
0812M19APinch	08AP 1/2"	3/4"	102
08013AP	08AP 1/2"	13/16"	102
08014APinch	08AP 1/2"	7/8"	102
08M8BB	08BB 1/2"	8	102
08M9BB	08BB 1/2"	9	102
08M10BB	08BB 1/2"	10	102
08M11BB	08BB 1/2"	11	102
08M12BB	08BB 1/2"	12	102
08M13BB	08BB 1/2"	13	102
08M14BB	08BB 1/2"	14	102
08M15BB	08BB 1/2"	15	102
08M16BB	08BB 1/2"	16	102
08M17BB	08BB 1/2"	17	102
08M18BB	08BB 1/2"	18	102
0812M19BB	08BB 1/2"	19	102
08M20BB	08BB 1/2"	20	102
08M21BB	08BB 1/2"	21	102
08M22BB	08BB 1/2"	22	102
08M23BB	08BB 1/2"	23	102
08M24BB	08BB 1/2"	24	102
0806BB	08BB 1/2"	3/8"	102
0807BB	08BB 1/2"	7/16"	102
0808BB	08BB 1/2"	1/2"	102
0809BB	08BB 1/2"	9/16"	102
0810BB	08BB 1/2"	5/8"	102
0811BB	08BB 1/2"	11/16"	102
0812M19BBinch	08BB 1/2"	3/4"	102
0813BB	08BB 1/2"	13/16"	102
0814BB	08BB 1/2"	7/8"	102
0815BB	08BB 1/2"	15/16"	102
08M17LAP	08LAP 1/2"	17	102
0812M19LAP	08LAP 1/2"	19	102
08M21LAP	08LAP 1/2"	21	102
0812M19LAPinch	08LAP 1/2"	3/4"	102
0813LAP	08LAP 1/2"	13/16"	102
0814LAP	08LAP 1/2"	7/8"	102
08M8LBB	08LBB 1/2"	8	102
08M9LBB	08LBB 1/2"	9	102
08M10LBB	08LBB 1/2"	10	102
08M11LBB	08LBB 1/2"	11	102
08M12LBB	08LBB 1/2"	12	102
08M13LBB	08LBB 1/2"	13	102
08M14LBB	08LBB 1/2"	14	102
08M15LBB	08LBB 1/2"	15	102
08M16LBB	08LBB 1/2"	16	102
08M17LBB	08LBB 1/2"	17	102
08M18LBB	08LBB 1/2"	18	102
0812M19LBB	08LBB 1/2"	19	102
08M20LBB	08LBB 1/2"	20	102
08M21LBB	08LBB 1/2"	21	102
08M22LBB	08LBB 1/2"	22	102
08M23LBB	08LBB 1/2"	23	102
08M24LBB	08LBB 1/2"	24	102
0806LBB	08LBB 1/2"	3/8"	102
0807LBB	08LBB 1/2"	7/16"	102
0808LBB	08LBB 1/2"	1/2"	102
0809LBB	08LBB 1/2"	9/16"	102
0810LBB	08LBB 1/2"	5/8"	102
0811LBB	08LBB 1/2"	11/16"	102
0812M19LBB inch	08LBB 1/2"	3/4"	102
0813LBB	08LBB 1/2"	13/16"	102
0814LBB	08LBB 1/2"	7/8"	102
0815LBB	08LBB 1/2"	15/16"	102
UB08M13	UB08 1/2"	13	103
UB08M14	UB08 1/2"	14	103
UB08M15	UB08 1/2"	15	103
UB08M16	UB08 1/2"	16	103
UB08M17	UB08 1/2"	17	103
UB08M18	UB08 1/2"	18	103
UB08M19	UB08 1/2"	19	103
UB08M20	UB08 1/2"	20	103
UB08M21	UB08 1/2"	21	103
UB08M22	UB08 1/2"	22	103
UB08M23	UB08 1/2"	23	103
UB08M24	UB08 1/2"	24	103
UB0809	UB08 1/2"	9/16"	103
UB0810	UB08 1/2"	5/8"	103
UB0811	UB08 1/2"	11/16"	103
UB0812	UB08 1/2"	3/4"	103
UB0813	UB08 1/2"	13/16"	103
UB0814	UB08 1/2"	7/8"	103
UB0815	UB08 1/2"	15/16"	103
UB08M13L	UB08L 1/2"	13	103
UB08M14L	UB08L 1/2"	14	103
UB08M15L	UB08L 1/2"	15	103
UB08M16L	UB08L 1/2"	16	103
UB08M17L	UB08L 1/2"	17	103
UB08M18L	UB08L 1/2"	18	103
UB08M19L	UB08L 1/2"	19	103
UB08M20L	UB08L 1/2"	20	103
UB08M21L	UB08L 1/2"	21	103
UB08M22L	UB08L 1/2"	22	103
UB08M23L	UB08L 1/2"	23	103
UB08M24L	UB08L 1/2"	24	103
UB0809L	UB08L 1/2"	9/16"	103
UB0810L	UB08L 1/2"	5/8"	103
UB0811L	UB08L 1/2"	11/16"	103
UB0812L	UB08L 1/2"	3/4"	103
UB0813L	UB08L 1/2"	13/16"	103
UB0814L	UB08L 1/2"	7/8"	103
UB0815L	UB08L 1/2"	15/16"	103

08M17Q075	08Q 1/2"	17 mm	103
08M17Q095	08Q 1/2"	17 mm	103
08M17Q110	08Q 1/2"	17 mm	103
08M19Q075	08Q 1/2"	19 mm	103
08M19Q090	08Q 1/2"	19 mm	103
08M19Q110	08Q 1/2"	19 mm	103
08M19Q135	08Q 1/2"	19 mm	103
08M21Q080	08Q 1/2"	21 mm	103
08M21Q110	08Q 1/2"	21 mm	103
QACD08	QACD08 1/2"	1/2"	103
E0803	E08 1/2"	1/2"	103
E0805	E08 1/2"	1/2"	103
E0810	E08 1/2"	1/2"	103
603978	231.4/4	1/2"	104
603977	231.4/5	1/2"	104
609460	231.6/4	1/2"	104
A0806	A08 1/2"	1/2"	104
A0810	A08 1/2"	1/2"	104
A0812	A08 1/2"	1/2"	104
603979	231.7/4	1/2" - 3/4"	104
612120	231.7/4	1/2" - 3/8"	104
AN0808	AN08 1/2"	1/2"	104
AN1008	AN08 1/2"	5/8"	104
AN1208	AN08 1/2"	3/4"	104
Z0802	Z08 1/2"	1/2"	104
Z0803	Z08 1/2"	1/2"	104
Z0805	Z08 1/2"	1/2"	104
Z0810	Z08 1/2"	1/2"	104
P0825	R08 1/2"	1/2"	104
P0830	R08 1/2"	1/2"	104
P0835	R08 1/2"	1/2"	104
R0825	R08 1/2"	1/2"	104
R0830	R08 1/2"	1/2"	104
R0835	R08 1/2"	1/2"	104
U0808	U08 1/2"	1/2"	104
603997	231.8/4	10 - 14	105
603998	231.8/4	15 - 32	105
612506	231/4PB1	15 - 30 / 12	105
612507	231/4PB2	16 - 30 / 12	105
SET-08-01	SET-08-01 1/2"	10-19 mm/10 piese	105
612508	231/4PB3	17 - 24 / 12	105
615227	231/4PB4	13	105
SET-08-13	SET-08-13 1/2"	10-19 mm/10 piese	105
SET-08-04	SET-08-04 1/2"	10-19 mm/10 piese	105
SET-014	SET-014	17x75, 17x95, 17x110, 19x75 mm	106
SET-015	SET-015	19x90, 19x110, 19x135, 21x110, 17x75, 17x95 mm	106
SET-016	SET-016	19x75, 19x90, 21x80, 17x95, 17x110, 19x90, 19x110, 21x110 mm	106
SET-08-08	SET-08-08 1/2"	3/8"-1.1/16"/14 piese	106
SET-08-12	SET-08-12	11-27 mm/16 piese	106
SET-08-09	SET-08-09	11-27 mm/16 piese	106
SET-08-14	SET-08-14 1/2"	8-19 mm/7 piese	106
SET-08-15	SET-08-15 1/2"	8-19 mm/7 piese	106
11521470001	11521470001	8-24 mm / 12 piese	106
019051	TP-16 720/721	10-32 mm/16 piese	106
072802	720 KS 15	15 piese	107
072801	720 SG 12	12 piese	107
072851	725 H 9	9 piese	107
072803	720 KLS 21	21 piese	107
072841	720 E/TX 16	16 piese	107
10M13	10M 5/8"	13	108
10M14	10M 5/8"	14	108
10M15	10M 5/8"	15	108
10M16	10M 5/8"	16	108
10M17	10M 5/8"	17	108
10M18	10M 5/8"	18	108
1012M19	10M 5/8"	19	108
10M20	10M 5/8"	20	108
10M21W07	10M 5/8"	21	108
10M22	10M 5/8"	22	108
10M23	10M 5/8"	23	108
10M24	10M 5/8"	24	108
10M25	10M 5/8"	25	108
10M26	10M 5/8"	26	108
1017M27	10M 5/8"	27	108
10M28	10M 5/8"	28	108
10M29	10M 5/8"	29	108
1019M30	10M 5/8"	30	108
10M31	10M 5/8"	31	108
10M32	10M 5/8"	32	108
10M33	10M 5/8"	33	108
10M34	10M 5/8"	34	108
1022M35	10M 5/8"	35	108
10M36	10M 5/8"	36	108
10M37	10M 5/8"	37	108
1024M38	10M 5/8"	38	108
1008	10M 5/8"	1/2"	108
1009	10M 5/8"	9/16"	108
1010	10M 5/8"	5/8"	108
1011	10M 5/8"	11/16"	108
1012M19inch	10M 5/8"	3/4"	108
1013	10M 5/8"	13/16"	108
1014	10M 5/8"	7/8"	108
1015	10M 5/8"	15/16"	108
1016	10M 5/8"	1"	108
1017M27 inch	10M 5/8"	1 1/16"	108
1018	10M 5/8"	1 1/8"	108
1019M30 inch	10M 5/8"	1 3/16"	108
1020	10M 5/8"	1 1/4"	108
1021	10M 5/8"	1 5/16"	108
1022M35 inch	10M 5/8"	1 3/8"	108
1023	10M 5/8"	1 7/16"	108
1024M38 inch	10M 5/8"	1 1/2"	108

A1008	A10 5/8"	5/8"	108
A1012	A10 5/8"	5/8"	108
10M13L	10L 5/8"	13	108
10M14L	10L 5/8"	14	108
10M15L	10L 5/8"	15	108
10M16L	10L 5/8"	16	108
10M17L	10L 5/8"	17	108
10M18L	10L 5/8"	18	108
1012M19L	10L 5/8"	19	108
10M20L	10L 5/8"	20	108
10M21L	10L 5/8"	21	108
10M22L	10L 5/8"	22	108
10M23L	10L 5/8"	23	108
10M24L	10L 5/8"	24	108
10M25L	10L 5/8"	25	108
10M26L	10L 5/8"	26	108
1017M27L	10L 5/8"	27	108
10M28L	10L 5/8"	28	108
10M29L	10L 5/8"	29	108
1019M30L	10L 5/8"	30	108
10M31L	10L 5/8"	31	108
10M32L	10L 5/8"	32	108
10M33L	10L 5/8"	33	108
10M34L	10L 5/8"	34	108
1022M35L	10L 5/8"	35	108
10M36L	10L 5/8"	36	108
10M37L	10L 5/8"	37	108
1024M38L	10L 5/8"	38	108
1008L	10L 5/8"	1/2"	108
1009L	10L 5/8"	9/16"	108
1010L	10L 5/8"	5/8"	108
1011L	10L 5/8"	11/16"	108
1012M19Linch	10L 5/8"	3/4"	108
1013L	10L 5/8"	13/16"	108
1014L	10L 5/8"	7/8"	108
1015L	10L 5/8"	15/16"	108
1016L	10L 5/8"	1"	108
1017M27Linch	10L 5/8"	1 1/16"	108
1018L	10L 5/8"	1 1/8"	108
1019M30Linch	10L 5/8"	1 3/16"	108
1020L	10L 5/8"	1 1/4"	108
1021L	10L 5/8"	1 5/16"	108
1022M35Linch	10L 5/8"	1 3/8"	108
1023L	10L 5/8"	1 7/16"	108
1024M38Linch	10L 5/8"	1 1/2"	108
Z1002	Z10 5/8"	5/8"	108
Z1003	Z10 5/8"	5/8"	108
Z1006	Z10 5/8"	5/8"	108
Z1012	Z10 5/8"	5/8"	108
AN1008	AN10 5/8"	5/8"	109
AN1010	AN10 5/8"	5/8"	109
AN1210	AN10 5/8"	5/8"	109
U1010	U10 5/8"	5/8"	109
603980	232/4 6p	17	109
603981	232/4 6p	19	109
603982	232/4 6p	21	109
603983	232/4 6p	22	109
603984	232/4 6p	24	109
603985	232/4 6p	27	109
609403	232/4 6p	28	109
603986	232/4 6p	30	109
603987	232/4 6p	32	109
603988	232/4 6p	33	109
603989	232/4 6p	36	109
603990	232/4 6p	41	109
603991	232/4 6p	46	109
P1035	PR10 5/8"	5/8"	109
P1044	PR10 5/8"	5/8"	109
R1035	PR10 5/8"	5/8"	109
R1044	PR10 5/8"	5/8"	109
12M13	12S 3/4"	13	109
12M14	12S 3/4"	14	109
12M15	12S 3/4"	15	109
12M16	12S 3/4"	16	109
12M17	12S 3/4"	17	109
12M18	12S 3/4"	18	109
1212M19	12S 3/4"	19	109
12M20	12S 3/4"	20	109
12M21	12S 3/4"	21	109
12M22	12S 3/4"	22	109
12M23	12S 3/4"	23	109
12M24	12S 3/4"	24	109
12M25	12S 3/4"	25	109
12M26	12S 3/4"	26	109
1217M27	12S 3/4"	27	109
12M28	12S 3/4"	28	109
12M29	12S 3/4"	29	109
1219M30	12S 3/4"	30	109
12M31	12S 3/4"	31	109
12M32	12S 3/4"	32	109
12M33	12S 3/4"	33	109
12M34	12S 3/4"	34	109
1222M35	12S 3/4"	35	109
12M36	12S 3/4"	36	109
12M37	12S 3/4"	37	109
1224M38	12S 3/4"	38	109
12M39	12S 3/4"	39	109
12M40	12S 3/4"	40	109
1226M41	12S 3/4"	41	109
12M42	12S 3/4"	42	109
1227M43	12S 3/4"	43	109
12M44	12S 3/4"	44	109
12M45	12S 3/4"	45	109
1229M46	12S 3/4"	46	109
12M47	12S 3/4"	47	109
12M48	12S 3/4"	48	109

1231M49	12S 3/4"	49	109
12M50	12S 3/4"	50	109
1232M51	12S 3/4"	51	109
12M52	12S 3/4"	52	109
1234M54	12S 3/4"	54	109
12M55	12S 3/4"	55	109
12M56	12S 3/4"	56	109
1236M57	12S 3/4"	57	109
12M58	12S 3/4"	58	109
1237M59	12S 3/4"	59	109
12M60	12S 3/4"	60	109
12M61	12S 3/4"	61	109
1208	12S 3/4"	1/2"	110
1209	12S 3/4"	9/16"	110
1210	12S 3/4"	5/8"	110
1211	12S 3/4"	11/16"	110
1212M19inch	12S 3/4"	3/4"	110
1213	12S 3/4"	13/16"	110
1214	12S 3/4"	7/8"	110
1215	12S 3/4"	15/16"	110
1216	12S 3/4"	1"	110
1217M27inch	12S 3/4"	1 1/16"	110
1218	12S 3/4"	1 1/8"	110
1219M30inch	12S 3/4"	1 3/16"	110
1220	12S 3/4"	1 1/4"	110
1221	12S 3/4"	1 5/16"	110
1222M35inch	12S 3/4"	1 3/8"	110
1223	12S 3/4"	1 7/16"	110
1224M38inch	12S 3/4"	1 1/2"	110
1225	12S 3/4"	1 9/16"	110
1226M41inch	12S 3/4"	1 5/8"	110
1227M43inch	12S 3/4"	1 11/16"	110
1228	12S 3/4"	1 3/4"	110
1229M46inch	12S 3/4"	1 13/16"	110
1230	12S 3/4"	1 7/8"	110
1231M49inch	12S 3/4"	1 15/16"	110
1232M51inch	12S 3/4"	2"	110
1233	12S 3/4"	2 1/16"	110
1234M54inch	12S 3/4"	2 1/8"	110
1235	12S 3/4"	2 3/16"	110
1236M57inch	12S 3/4"	2 1/4"	110
1237M59inch	12S 3/4"	2 5/16"	110
1238	12S 3/4"	2 3/8"	110
12M13L	12L 3/4"	13	110
12M14L	12L 3/4"	14	110
12M15L	12L 3/4"	15	110
12M16L	12L 3/4"	16	110
12M17L	12L 3/4"	17	110
12M18L	12L 3/4"	18	110
1212M19L	12L 3/4"	19	110
12M20L	12L 3/4"	20	110
12M21L	12L 3/4"	21	110
12M22L	12L 3/4"	22	110
12M23L	12L 3/4"	23	110
12M24L	12L 3/4"	24	110
12M25L	12L 3/4"	25	110
12M26L	12L 3/4"	26	110
1217M27L	12L 3/4"	27	110
12M28L	12L 3/4"	28	110
12M29L	12L 3/4"	29	110
1219M30L	12L 3/4"	30	110
12M31L	12L 3/4"	31	110
12M32L	12L 3/4"	32	110
12M33L	12L 3/4"	33	110
12M34L	12L 3/4"	34	110
1222M35L	12L 3/4"	35	110
12M36L	12L 3/4"	36	110
12M37L	12L 3/4"	37	110
1224M38L	12L 3/4"	38	110
12M39L	12L 3/4"	39	110
12M40L	12L 3/4"	40	110
1226M41L	12L 3/4"	41	110
12M42L	12L 3/4"	42	110
1227M43L	12L 3/4"	43	110
12M44L	12L 3/4"	44	110
12M45L	12L 3/4"	45	110
1229M46L	12L 3/4"	46	110
12M47L	12L 3/4"	47	110
12M48L	12L 3/4"	48	110
1231M49L	12L 3/4"	49	110
12M50L	12L 3/4"	50	110
1232M51L	12L 3/4"	51	110
12M52L	12L 3/4"	52	110
1234M54L	12L 3/4"	54	110
12M55L	12L 3/4"	55	110
12M56L	12L 3/4"	56	110
1236M57L	12L 3/4"	57	110
12M58L	12L 3/4"	58	110
1237M59L	12L 3/4"	59	110
12M60L	12L 3/4"	60	110
12M61L	12L 3/4"	61	110
1208L	12L 3/4"	1/2"	110
1209L	12L 3/4"	9/16"	110
1210L	12L 3/4"	5/8"	110
1211L	12L 3/4"	11/16"	110
1212M19L inch	12L 3/4"	3/4"	110
1213L	12L 3/4"	13/16"	110
1214L	12L 3/4"	7/8"	110
1215L	12L 3/4"	15/16"	110
1216L	12L 3/4"	1"	110
1217M27L inch	12L 3/4"	1 1/16"	110
1218L	12L 3/4"	1 1/8"	110
1219M30L inch	12L 3/4"	1 3/16"	110
1220L	12L 3/4"	1 1/4"	110
1221L	12L 3/4"	1 5/16"	110
1222M35L inch	12L 3/4"	1 3/8"	110

1223L	12L 3/4"	1 7/16"	110
1224M38L inch	12L 3/4"	1 1/2"	110
1225L	12L 3/4"	1 9/16"	110
1226M41L inch	12L 3/4"	1 5/8"	110
1227M43L inch	12L 3/4"	1 11/16"	110
1228L	12L 3/4"	1 3/4"	110
1230L	12L 3/4"	1 7/8"	110
1229M46L inch	12L 3/4"	1 13/16"	110
1231M49L inch	12L 3/4"	1 15/16"	110
1232M51L inch	12L 3/4"	2"	110
1233L	12L 3/4"	2 1/16"	110
1234M54L inch	12L 3/4"	2 1/8"	110
1235L	12L 3/4"	2 3/16"	110
1236M57L inch	12L 3/4"	2 1/4"	110
1237M59L inch	12L 3/4"	2 5/16"	110
1238L	12L 3/4"	2 3/8"	110
607934	232/4L6p	17	110
607935	232/4L6p	19	110
607936	232/4L6p	21	110
607937	232/4L6p	22	110
607938	232/4L6p	24	110
607939	232/4L6p	27	110
609404	232/4L6p	28	110
607940	232/4L6p	30	110
607941	232/4L6p	32	110
607942	232/4L6p	33	110
607943	232/4L6p	36	110
607944	232/4L6p	41	110
607945	232/4L6p	46	110
12M17B	12B 3/4"	17	111
12M18B	12B 3/4"	18	111
12M19B	12B 3/4"	19	111
12M20B	12B 3/4"	20	111
12M21B	12B 3/4"	21	111
12M22B	12B 3/4"	22	111
12M24B	12B 3/4"	24	111
12M27B	12B 3/4"	27	111
12010B	12B 3/4"	5/8"	111
12012B	12B 3/4"	3/4"	111
12013B	12B 3/4"	13/16"	111
12014B	12B 3/4"	7/8"	111
12015B	12B 3/4"	15/16"	111
12016B	12B 3/4"	1"	111
12017B	12B 3/4"	1.1/16"	111
UB12M17	UB12 3/4"	17	111
UB12M18	UB12 3/4"	18	111
UB12M19	UB12 3/4"	19	111
UB12M21	UB12 3/4"	21	111
UB12M22	UB12 3/4"	22	111
UB12M24	UB12 3/4"	24	111
UB12M26	UB12 3/4"	26	111
UB12M27	UB12 3/4"	27	111
UB12M30	UB12 3/4"	30	111
UB12M32	UB12 3/4"	32	111
UB12M34	UB12 3/4"	34	111
UB12M35	UB12 3/4"	35	111
UB12M36	UB12 3/4"	36	111
UB12M38	UB12 3/4"	38	111
UB1211	UB12 3/4"	11/16"	111
UB1212	UB12 3/4"	3/4"	111
UB1213	UB12 3/4"	13/16"	111
UB1214	UB12 3/4"	7/8"	111
UB1215	UB12 3/4"	15/16"	111
UB1216	UB12 3/4"	1"	111
UB1217	UB12 3/4"	1.1/16"	111
UB1218	UB12 3/4"	1.1/8"	111
UB1219	UB12 3/4"	1.13/16"	111
UB1220	UB12 3/4"	1.1/4"	111
UB1221	UB12 3/4"	1.5/16"	111
UB1222	UB12 3/4"	1.3/8"	111
UB1223	UB12 3/4"	1.7/16"	111
UB1224	UB12 3/4"	1.1/2"	111
UB12M17L	UB12L 3/4"	17	111
UB12M18L	UB12L 3/4"	18	111
UB12M19L	UB12L 3/4"	19	111
UB12M21L	UB12L 3/4"	21	111
UB12M22L	UB12L 3/4"	22	111
UB12M24L	UB12L 3/4"	24	111
UB12M26L	UB12L 3/4"	26	111
UB12M27L	UB12L 3/4"	27	111
UB12M30L	UB12L 3/4"	30	111
UB12M32L	UB12L 3/4"	32	111
UB12M34L	UB12L 3/4"	34	111
UB12M35L	UB12L 3/4"	35	111
UB12M36L	UB12L 3/4"	36	111
UB12M38L	UB12L 3/4"	38	111
UB1211L	UB12L 3/4"	11/16"	111
UB1212L	UB12L 3/4"	3/4"	111
UB1213L	UB12L 3/4"	13/16"	111
UB1214L	UB12L 3/4"	7/8"	111
UB1215L	UB12L 3/4"	15/16"	111
UB1216L	UB12L 3/4"	1"	111
UB1217L	UB12L 3/4"	1.1/16"	111
UB1218L	UB12L 3/4"	1.1/8"	111
UB1219L	UB12L 3/4"	1.13/16"	111
UB1220L	UB12L 3/4"	1.1/4"	111
UB1221L	UB12L 3/4"	1.5/16"	111
UB1222L	UB12L 3/4"	1.3/8"	111
UB1223L	UB12L 3/4"	1.7/16"	111
UB1224L	UB12L 3/4"	1.1/2"	111
12M17T	12T 3/4"	17	111
12M18T	12T 3/4"	18	111
1212M19T	12T 3/4"	19	111
12M20T	12T 3/4"	20	111
12M21T	12T 3/4"	21	111
12M22T	12T 3/4"	22	111
12M23T	12T 3/4"	23	111
12M24T	12T 3/4"	24	111
12M25T	12T 3/4"	25	111
12M26T	12T 3/4"	26	111
1217M27T	12T 3/4"	27	111
12M28T	12T 3/4"	28	111
12M29T	12T 3/4"	29	111
1219M30T	12T 3/4"	30	111
12M31T	12T 3/4"	31	111
12M32T	12T 3/4"	32	111
12M33T	12T 3/4"	33	112
12M34T	12T 3/4"	34	112
1222M35T	12T 3/4"	35	112
12M36T	12T 3/4"	36	112
12M37T	12T 3/4"	37	112
1224M38T	12T 3/4"	38	112
12M39T	12T 3/4"	39	112
12M40T	12T 3/4"	40	112
1226M41T	12T 3/4"	41	112
12M42T	12T 3/4"	42	112
1227M43T	12T 3/4"	43	112
12M44T	12T 3/4"	44	112
12M45T	12T 3/4"	45	112
1229M46T	12T 3/4"	46	112
1211T	12T 3/4"	11/16"	112
1212M19T inch	12T 3/4"	3/4"	112
1213T	12T 3/4"	13/16"	112
1214T	12T 3/4"	7/8"	112
1215T	12T 3/4"	15/16"	112
1216T	12T 3/4"	1"	112
1217M27T inch	12T 3/4"	1 1/16"	112
1218T	12T 3/4"	1 1/8"	112
1219M30T inch	12T 3/4"	1 3/16"	112
1220T	12T 3/4"	1 1/4"	112
1221T	12T 3/4"	1 5/16"	112
1222M35T inch	12T 3/4"	1 3/8"	112
1223T	12T 3/4"	1 7/16"	112
1224M38T inch	12T 3/4"	1 1/2"	112
1225T	12T 3/4"	1 9/16"	112
1226M41T inch	12T 3/4"	1 5/8"	112
1227M43T inch	12T 3/4"	1 11/16"	112
1228T	12T 3/4"	1 3/4"	112
1229M46T inch	12T 3/4"	1 13/16"	112
12M17LT	12LT 3/4"	17	112
12M18LT	12LT 3/4"	18	112
1212M19LT	12LT 3/4"	19	112
12M20LT	12LT 3/4"	20	112
12M21LT	12LT 3/4"	21	112
12M22LT	12LT 3/4"	22	112
12M23LT	12LT 3/4"	23	112
12M24LT	12LT 3/4"	24	112
12M25LT	12LT 3/4"	25	112
12M26LT	12LT 3/4"	26	112
1217M27LT	12LT 3/4"	27	112
12M28LT	12LT 3/4"	28	112
12M29LT	12LT 3/4"	29	112
1219M30LT	12LT 3/4"	30	112
12M31LT	12LT 3/4"	31	112
12M32LT	12LT 3/4"	32	112
12M33LT	12LT 3/4"	33	112
12M34LT	12LT 3/4"	34	112
1222M35LT	12LT 3/4"	35	112
12M36LT	12LT 3/4"	36	112
12M37LT	12LT 3/4"	37	112
1224M38LT	12LT 3/4"	38	112
12M39LT	12LT 3/4"	39	112
12M40LT	12LT 3/4"	40	112
1226M41LT	12LT 3/4"	41	112
12M42LT	12LT 3/4"	42	112
1227M43LT	12LT 3/4"	43	112
12M44LT	12LT 3/4"	44	112
12M45LT	12LT 3/4"	45	112
1229M46LT	12LT 3/4"	46	112
1211LT	12LT 3/4"	11/16"	112
1212M19LT inch	12LT 3/4"	3/4"	112
1213LT	12LT 3/4"	13/16"	112
1214LT	12LT 3/4"	7/8"	112
1215LT	12LT 3/4"	15/16"	112
1216LT	12LT 3/4"	1"	112
1217M27LT inch	12LT 3/4"	1 1/16"	112
1218LT	12LT 3/4"	1 1/8"	112
1219M30LT inch	12LT 3/4"	1 3/16"	112
1220LT	12LT 3/4"	1 1/4"	112
1221LT	12LT 3/4"	1 5/16"	112
1222M35LT inch	12LT 3/4"	1 3/8"	112
1223LT	12LT 3/4"	1 7/16"	112
1224M38LT inch	12LT 3/4"	1 1/2"	112
1225LT	12LT 3/4"	1 9/16"	112
1226M41LT inch	12LT 3/4"	1 5/8"	112
1227M43LT inch	12LT 3/4"	1 11/16"	112
1228LT	12LT 3/4"	1 3/4"	112
1229M46LT inch	12LT 3/4"	1 13/16"	112
1222M35DS	12DS 3/4"	35	112
1224M38DS	12DS 3/4"	38	112
1226M41DS	12DS 3/4"	41	112
1227M43DS	12DS 3/4"	43	112
1229M46DS	12DS 3/4"	46	112
1220DS	12DS 3/4"	1 1/4"	112
1221DS	12DS 3/4"	1 5/16"	112
1222M35DS inch	12DS 3/4"	1 3/8"	112
1223DS	12DS 3/4"	1 7/16"	112
1224M38DS inch	12DS 3/4"	1 1/2"	112
1225DS	12DS 3/4"	1 9/16"	112
1226M41DS inch	12DS 3/4"	1 5/8"	112
1227M43DS inch	12DS 3/4"	1 11/16"	112
1228DS	12DS 3/4"	1 3/4"	112
1229M46DS inch	12DS 3/4"	1 13/16"	112
1230DS	12DS 3/4"	1 7/8"	112
1222M35LDS	12LDS 3/4"	35	112
1224M38LDS	12LDS 3/4"	38	112
1226M41LDS	12LDS 3/4"	41	112
1227M43LDS	12LDS 3/4"	43	112
1229M46LDS	12LDS 3/4"	46	112
1220LDS	12LDS 3/4"	1 1/4"	112
1221LDS	12LDS 3/4"	1 5/16"	112
1222M35LDS inch	12LDS 3/4"	1 3/8"	112
1223LDS	12LDS 3/4"	1 7/16"	112
1224M38LDS inch	12LDS 3/4"	1 1/2"	112
1225LDS	12LDS 3/4"	1 9/16"	112
1226M41LDS inch	12LDS 3/4"	1 5/8"	112
1227M43LDS inch	12LDS 3/4"	1 11/16"	112
1228LDS	12LDS 3/4"	1 3/4"	112
1229M46LDS inch	12LDS 3/4"	1 13/16"	112
1230LDS	12LDS 3/4"	1 7/8"	112
12M17DH	12DH 3/4"	17	113
12M18DH	12DH 3/4"	18	113
1212M19DH	12DH 3/4"	19	113
12M20DH	12DH 3/4"	20	113
12M21DH	12DH 3/4"	21	113
12M22DH	12DH 3/4"	22	113
12M23DH	12DH 3/4"	23	113
12M24DH	12DH 3/4"	24	113
12M25DH	12DH 3/4"	25	113
12M26DH	12DH 3/4"	26	113
1217M27DH	12DH 3/4"	27	113
12M28DH	12DH 3/4"	28	113
12M29DH	12DH 3/4"	29	113
1219M30DH	12DH 3/4"	30	113
12M31DH	12DH 3/4"	31	113
12M32DH	12DH 3/4"	32	113
12M33DH	12DH 3/4"	33	113
12M34DH	12DH 3/4"	34	113
1222M35DH	12DH 3/4"	35	113
12M36DH	12DH 3/4"	36	113
12M37DH	12DH 3/4"	37	113
1224M38DH	12DH 3/4"	38	113
12M39DH	12DH 3/4"	39	113
12M40DH	12DH 3/4"	40	113
1226M41DH	12DH 3/4"	41	113
12M42DH	12DH 3/4"	42	113
1227M43DH	12DH 3/4"	43	113
12M44DH	12DH 3/4"	44	113
12M45DH	12DH 3/4"	45	113
1229M46DH	12DH 3/4"	46	113
12M47DH	12DH 3/4"	47	113
12M48DH	12DH 3/4"	48	113
1231M49DH	12DH 3/4"	49	113
12M50DH	12DH 3/4"	50	113
1232M51DH	12DH 3/4"	51	113
12M52DH	12DH 3/4"	52	113
1234M54DH	12DH 3/4"	54	113
12M55DH	12DH 3/4"	55	113
12M56DH	12DH 3/4"	56	113
1236M57DH	12DH 3/4"	57	113
12M58DH	12DH 3/4"	58	113
1237M59DH	12DH 3/4"	59	113
12M60DH	12DH 3/4"	60	113
12M61DH	12DH 3/4"	61	113
1211DH	12DH 3/4"	11/16"	113
1212M19DH inch	12DH 3/4"	3/4"	113
1213DH	12DH 3/4"	13/16"	113
1214DH	12DH 3/4"	7/8"	113
1215DH	12DH 3/4"	15/16"	113
1216DH	12DH 3/4"	1"	113
1217M27DH inch	12DH 3/4"	1 1/16"	113
1218DH	12DH 3/4"	1 1/8"	113
1219M30DH inch	12DH 3/4"	1 3/16"	113
1220DH	12DH 3/4"	1 1/4"	113
1221DH	12DH 3/4"	1 5/16"	113
1222M35DH inch	12DH 3/4"	1 3/8"	113
1223DH	12DH 3/4"	1 7/16"	113
1224M38DH inch	12DH 3/4"	1 1/2"	113
1225DH	12DH 3/4"	1 9/16"	113
1226M41DH inch	12DH 3/4"	1 5/8"	113
1227M43DH inch	12DH 3/4"	1 11/16"	113
1228DH	12DH 3/4"	1 3/4"	113
1229M46DH inch	12DH 3/4"	1 13/16"	113
1230DH	12DH 3/4"	1 7/8"	113
1231M49DH inch	12DH 3/4"	1 15/16"	113
1232M51DH inch	12DH 3/4"	2"	113
1233DH	12DH 3/4"	2 1/16"	113
1234M54DH inch	12DH 3/4"	2 1/8"	113
1235DH	12DH 3/4"	2 3/16"	113
1236M57DH inch	12DH 3/4"	2 1/4"	113
1237M59DH inch	12DH 3/4"	2 5/16"	113
1238DH	12DH 3/4"	2 3/8"	113
1213B	12B 3/4"	13/16"	113
1213BL	12B 3/4"	13/16"	113
1224BS	12B 3/4"	13/16"+1.1/2"	113
12M10V	12V 3/4"	10	113
12M11V	12V 3/4"	11	113
12M12V	12V 3/4"	12	113
12M13V	12V 3/4"	13	113
12M14V	12V 3/4"	14	113
12M15V	12V 3/4"	15	113
12M16V	12V 3/4"	16	113
12M17V	12V 3/4"	17	113
12M18V	12V 3/4"	18	113
12M19V	12V 3/4"	19	113
12M20V	12V 3/4"	21	113
12M21V	12V 3/4"	21	113
12M22V	12V 3/4"	22	113

12M23V	12V 3/4"	23	113
12M24V	12V 3/4"	24	113
1206V	12V 3/4"	3/8"	113
1207V	12V 3/4"	7/16"	113
1208V	12V 3/4"	1/2"	113
1209V	12V 3/4"	9/16"	113
1210V	12V 3/4"	5/8"	113
1212V	12V 3/4"	3/4"	113
1213V	12V 3/4"	13/16"	113
1214V	12V 3/4"	7/8"	113
1216V	12V 3/4"	1"	113
12H16	12H 3/4"	3/4" suport pentru 16 mm bit 6 laturi, 9-16 mm si 3/8"-5/8"	113
12H22	12H 3/4"	3/4" suport pentru 22 mm bit 6 laturi, 17 -22 mm si 3/4"-7/8"	113
12H32	12H 3/4"	3/4" suport pentru 32 mm bit 6 laturi 23-32 mm si 1"-1.1/4"	113
HM10		10	114
HM11		11	114
HM12		12	114
HM13		13	114
HM14		14	114
HM15		15	114
HM16		16	114
HM17		17	114
HM18		18	114
HM19		19	114
HM20		20	114
HM21		21	114
HM22		22	114
HM23		23	114
HM24		24	114
H06		3/8"	114
H07		7/16"	114
H08		1/2"	114
H09		9/16"	114
H10		5/8"	114
H12		3/4"	114
H13		13/16"	114
H14		7/8"	114
H16		1"	114
12M10H		10	114
12M11H		11	114
12M12H		12	114
12M13H		13	114
12M14H		14	114
12M15H		15	114
12M16H		16	114
12M17H		17	114
12M18H		18	114
12M19H		19	114
12M20H		20	114
12M21H		21	114
12M22H		22	114
12M23H		23	114
12M24H		24	114
1206H		3/8"	114
1207H		7/16"	114
1208H		1/2"	114
1209H		9/16"	114
1210H		5/8"	114
1212H		3/4"	114
1213H		13/16"	114
1214H		7/8"	114
1216H		1"	114
12M10HL4	12HL4 3/4"	10	114
12M12HL4	12HL4 3/4"	12	114
12M14HL4	12HL4 3/4"	14	114
12M17HL4	12HL4 3/4"	17	114
12M19HL4	12HL4 3/4"	19	114
12M22HL4	12HL4 3/4"	22	114
12M24HL4	12HL4 3/4"	24	114
1206HL4	12HL4 3/4"	3/8"	114
1207HL4	12HL4 3/4"	7/16"	114
1208HL4	12HL4 3/4"	1/2"	114
1209HL4	12HL4 3/4"	9/16"	114
1210HL4	12HL4 3/4"	5/8"	114
1212HL4	12HL4 3/4"	3/4"	114
1213HL4	12HL4 3/4"	13/16"	114
1214HL4	12HL4 3/4"	7/8"	114
1216HL4	12HL4 3/4"	1"	114
12M10HL6	12HL6 3/4"	10	114
12M12HL6	12HL6 3/4"	12	114
12M14HL6	12HL6 3/4"	14	114
12M17HL6	12HL6 3/4"	17	114
12M19HL6	12HL6 3/4"	19	114
12M22HL6	12HL6 3/4"	22	114
12M24HL6	12HL6 3/4"	24	114
1206HL6	12HL6 3/4"	3/8"	114
1207HL6	12HL6 3/4"	7/16"	114
1208HL6	12HL6 3/4"	1/2"	114
1209HL6	12HL6 3/4"	9/16"	114
1210HL6	12HL6 3/4"	5/8"	114
1212HL6	12HL6 3/4"	3/4"	114
1213HL6	12HL6 3/4"	13/16"	114
1214HL6	12HL6 3/4"	7/8"	114
1216HL6	12HL6 3/4"	1"	114
603995	232.7/4	3/4" - 1/2"	115
618708	232.7/4	3/4" - 1"	115
A1208	A12 3/4"	3/4"	115
A1210	A12 3/4"	3/4"	115
A1216	A12 3/4"	3/4"	115
AN1208	AN12 3/4"	3/4"	115
AN1210	AN12 3/4"	3/4"	115
AN1212	AN12 3/4"	3/4"	115
AN1612	AN12 3/4"	1"	115
QCAD12	QCAD12 3/4"	3/4"	115
603993	232.4/4	3/4"	115
603992	232.4/4	3/4"	115
E1203	E12 3/4"	3/4"	115
E1204	E12 3/4"	3/4"	115
E1205	E12 3/4"	3/4"	115
E1207	E12 3/4"	3/4"	115
E1210	E12 3/4"	3/4"	115
E1213	E12 3/4"	3/4"	115
603994	232.6/4	3/4"	115
U1212	U12 3/4"	3/4"	115
Z1202	Z12 3/4"	3/4"	116
Z1203	Z12 3/4"	3/4"	116
Z1204	Z12 3/4"	3/4"	116
Z1205	Z12 3/4"	3/4"	116
Z1207	Z12 3/4"	3/4"	116
Z1210	Z12 3/4"	3/4"	116
Z1213	Z12 3/4"	3/4"	116
Z1215	Z12 3/4"	3/4"	116
Z1216	Z12 3/4"	3/4"	116
603996	232.8/4	3/4"	116
P1244	PR12 3/4"	3/4"	116
P1254	PR12 3/4"	3/4"	116
R1244	PR12 3/4"	3/4"	116
R1254	PR12 3/4"	3/4"	116
SET 12-03	SET 12-03	24-33 m / 4 piese	116
621459	232PB1	24 - 36 / 7	116
SET 12-01	SET 12-01 / SET 12-02	19-41 mm / 16 piese	116
SET 12-02	SET 12-01 / SET 12-02	11-27 mm / 16 piese	116
074800	740 KS 9	10 piese	116
1612M19	16S 1"	19	117
16M20	16S 1"	20	117
16M21	16S 1"	21	117
16M22	16S 1"	22	117
16M23	16S 1"	23	117
16M24	16S 1"	24	117
16M25	16S 1"	25	117
16M26	16S 1"	26	117
1617M27	16S 1"	27	117
16M28	16S 1"	28	117
16M29	16S 1"	29	117
1619M30	16S 1"	30	117
16M31	16S 1"	31	117
16M32	16S 1"	32	117
16M33	16S 1"	33	117
16M34	16S 1"	34	117
1622M35	16S 1"	35	117
16M36	16S 1"	36	117
16M37	16S 1"	37	117
1624M38	16S 1"	38	117
16M39	16S 1"	39	117
16M40	16S 1"	40	117
1626M41	16S 1"	41	117
16M42	16S 1"	42	117
1627M43	16S 1"	43	117
16M44	16S 1"	44	117
16M45	16S 1"	45	117
1629M46	16S 1"	46	117
16M47	16S 1"	47	117
16M48	16S 1"	48	117
1631M49	16S 1"	49	117
16M50	16S 1"	50	117
1632M51	16S 1"	51	117
16M52	16S 1"	52	117
1634M54	16S 1"	54	117
16M55	16S 1"	55	117
16M56	16S 1"	56	117
1636M57	16S 1"	57	117
16M58	16S 1"	58	117
1637M59	16S 1"	59	117
16M60	16S 1"	60	117
16M61	16S 1"	61	117
1639M62	16S 1"	62	117
1641M65	16S 1"	65	117
1642M67	16S 1"	67	117
1644M70	16S 1"	70	117
1646M73	16S 1"	73	117
1647M75	16S 1"	75	117
1648M76	16S 1"	76	117
16M77	16S 1"	77	117
16M80	16S 1"	80	117
16M85	16S 1"	85	117
1654M86	16S 1"	86	117
16M90	16S 1"	90	117
1660M95	16S 1"	95	117
1663M100	16S 1"	100	117
1666M105	16S 1"	105	117
1669M110	16S 1"	110	117
16M115	16S 1"	115	117
1612M19 inch	16S 1"	3/4"	117
1613	16S 1"	13/16"	117
1614	16S 1"	7/8"	117
1615	16S 1"	15/16"	117
1616	16S 1"	1"	117
1617M27 inch	16S 1"	1 1/16"	117
1618	16S 1"	1 1/8"	117
1619M30 inch	16S 1"	1 3/16"	117
1620	16S 1"	1 1/4"	117
1621	16S 1"	1 5/16"	117
1622M35 inch	16S 1"	1 3/8"	117
1623	16S 1"	1 7/16"	117
1624M38 inch	16S 1"	1 1/2"	117
1625	16S 1"	1 9/16"	117
1626M41 inch	16S 1"	1 5/8"	117
1627M43 inch	16S 1"	1 11/16"	117
1628	16S 1"	1 3/4"	117
1629M46 inch	16S 1"	1 13/16"	117
1630	16S 1"	1 7/8"	117
1631M49 inch	16S 1"	1 15/16"	117
1632M51 inch	16S 1"	2"	117
1633	16S 1"	2 1/16"	117
1634M54 inch	16S 1"	2 1/8"	117
1635	16S 1"	2 3/16"	117
1636M57 inch	16S 1"	2 1/4"	117
1637M59 inch	16S 1"	2 5/16"	117
1638	16S 1"	2 3/8"	117
1639M62 inch	16S 1"	2 7/16"	117
1640	16S 1"	2 1/2"	117
1641M65 inch	16S 1"	2 9/16"	117
1642M67 inch	16S 1"	2 5/8"	117
1643	16S 1"	2 11/16"	117
1644M70 inch	16S 1"	2 3/4"	117
1645	16S 1"	2 13/16"	117
1646M73 inch	16S 1"	2 7/8"	117
1647M75 inch	16S 1"	2 15/16"	117
1648M76 inch	16S 1"	3"	117
1649	16S 1"	3 1/16"	117
1650	16S 1"	3 1/8"	117
1651	16S 1"	3 3/16"	117
1652	16S 1"	3 1/4"	117
1653	16S 1"	3 5/16"	117
1654M86 inch	16S 1"	3 3/8"	117
1655	16S 1"	3 7/16"	117
1656	16S 1"	3 1/2"	117
1657	16S 1"	3 9/16"	117
1658	16S 1"	3 5/8"	117
1659	16S 1"	3 11/16"	117
1660M95 inch	16S 1"	3 3/4"	117
1661	16S 1"	3 13/16"	117
1662	16S 1"	3 7/8"	117
1663M100 inch	16S 1"	3 15/16"	117
1664	16S 1"	4"	117
1665	16S 1"	4 1/16"	117
1666M105 inch	16S 1"	4 1/8"	117
1667	16S 1"	4 3/16"	117
1668	16S 1"	4 1/4"	117
1669M110 inch	16S 1"	4 5/16"	117
1670	16S 1"	4 3/8"	117
1671	16S 1"	4 7/16"	117
1672	16S 1"	4 1/2"	117
615195	233/4 6p	22	118
615196	233/4 6p	24	118
615197	233/4 6p	27	118
615198	233/4 6p	30	118
615199	233/4 6p	32	118
615200	233/4 6p	33	118
615201	233/4 6p	34	118
615202	233/4 6p	36	118
615203	233/4 6p	38	118
615204	233/4 6p	41	118
615205	233/4 6p	42	118
615206	233/4 6p	46	118
615207	233/4 6p	50	118
615208	233/4 6p	55	118
615209	233/4 6p	60	118
615210	233/4 6p	65	118
615211	233/4 6p	70	118
615212	233/4 6p	75	118
615213	233/4 6p	80	118
616771	233/4L6p	22	118
616772	233/4L6p	24	118
616773	233/4L6p	27	118
616774	233/4L6p	30	118
616775	233/4L6p	32	118
616776	233/4L6p	33	118
616777	233/4L6p	34	118
616778	233/4L6p	36	118
616779	233/4L6p	38	118
616780	233/4L6p	41	118
616781	233/4L6p	42	118
616782	233/4L6p	46	118
616783	233/4L6p	50	118
616784	233/4L6p	55	118
616785	233/4L6p	60	118
616786	233/4L6p	65	118
616787	233/4L6p	70	118
616788	233/4L6p	75	118
616789	233/4L6p	80	118
1612M19L	16L 1"	19	118
16M20L	16L 1"	20	118
16M21L	16L 1"	21	118
16M22L	16L 1"	22	118
16M23L	16L 1"	23	118
16M24L	16L 1"	24	118
16M25L	16L 1"	25	118
16M26L	16L 1"	26	118
1617M27L	16L 1"	27	118
16M28L	16L 1"	28	118
16M29L	16L 1"	29	118
1619M30L	16L 1"	30	118
16M31L	16L 1"	31	118
16M32L	16L 1"	32	118
16M33L	16L 1"	33	118
16M34L	16L 1"	34	118
1622M35L	16L 1"	35	118
16M36L	16L 1"	36	118
16M37L	16L 1"	37	118
1624M38L	16L 1"	38	118

16M39L	16L 1"	39	118
16M40L	16L 1"	40	118
1626M41L	16L 1"	41	118
16M42L	16L 1"	42	118
1627M43L	16L 1"	43	118
16M44L	16L 1"	44	118
16M45L	16L 1"	45	118
1629M46L	16L 1"	46	118
16M47L	16L 1"	47	118
16M48L	16L 1"	48	118
1631M49L	16L 1"	49	118
16M50L	16L 1"	50	118
1632M51L	16L 1"	51	118
16M52L	16L 1"	52	118
1634M54L	16L 1"	54	118
16M55L	16L 1"	55	118
16M56L	16L 1"	56	118
1636M57L	16L 1"	57	118
16M58L	16L 1"	58	118
1637M59L	16L 1"	59	118
16M60L	16L 1"	60	118
16M61L	16L 1"	61	118
1639M62L	16L 1"	62	118
1641M65L	16L 1"	65	118
1642M67L	16L 1"	67	118
1644M70L	16L 1"	70	118
1646M73L	16L 1"	73	118
1647M75L	16L 1"	75	118
1648M76L	16L 1"	76	118
16M77L	16L 1"	77	118
16M80L	16L 1"	80	118
16M85L	16L 1"	85	118
1654M86L	16L 1"	86	118
16M90L	16L 1"	90	118
1660M95L	16L 1"	95	118
1663M100L	16L 1"	100	118
1666M105L	16L 1"	105	118
1669M110L	16L 1"	110	118
16M115L	16L 1"	115	118
1612M19L inch	16L 1"	3/4"	118
1613L	16L 1"	13/16"	118
1614L	16L 1"	7/8"	118
1615L	16L 1"	15/16"	118
1616L	16L 1"	1"	118
1617M27L inch	16L 1"	1 1/16"	119
1618L	16L 1"	1 1/8"	119
1619M30L inch	16L 1"	1 3/16"	119
1620L	16L 1"	1 1/4"	119
1621L	16L 1"	1 5/16"	119
1622M35L inch	16L 1"	1 3/8"	119
1623L	16L 1"	1 7/16"	119
1624M38L inch	16L 1"	1 1/2"	119
1625L	16L 1"	1 9/16"	119
1626M41L inch	16L 1"	1 5/8"	119
1627M43L inch	16L 1"	1 11/16"	119
1628L	16L 1"	1 3/4"	119
1629M46L inch	16L 1"	1 13/16"	119
1630L	16L 1"	1 7/8"	119
1631M49L inch	16L 1"	1 15/16"	119
1632M51L inch	16L 1"	2"	119
1633L	16L 1"	2 1/16"	119
1634M54L inch	16L 1"	2 1/8"	119
1635L	16L 1"	2 3/16"	119
1636M57L inch	16L 1"	2 1/4"	119
1637M59L inch	16L 1"	2 5/16"	119
1638L	16L 1"	2 3/8"	119
1639M62L inch	16L 1"	2 7/16"	119
1640L	16L 1"	2 1/2"	119
1641M65L inch	16L 1"	2 9/16"	119
1642M67L inch	16L 1"	2 5/8"	119
1643L	16L 1"	2 11/16"	119
1644M70L inch	16L 1"	2 3/4"	119
1645L	16L 1"	2 13/16"	119
1646M73L inch	16L 1"	2 7/8"	119
1647M75L inch	16L 1"	2 15/16"	119
1648M76L inch	16L 1"	3"	119
1649L	16L 1"	3 1/16"	119
1650L	16L 1"	3 1/8"	119
1651L	16L 1"	3 3/16"	119
1652L	16L 1"	3 1/4"	119
1653L	16L 1"	3 5/16"	119
1654M86L inch	16L 1"	3 3/8"	119
1655L	16L 1"	3 7/16"	119
1656L	16L 1"	3 1/2"	119
1657L	16L 1"	3 9/16"	119
1658L	16L 1"	3 5/8"	119
1659L	16L 1"	3 11/16"	119
1660M95L inch	16L 1"	3 3/4"	119
1661L	16L 1"	3 13/16"	119
1662L	16L 1"	3 7/8"	119
1663M100L inch	16L 1"	3 15/16"	119
1664L	16L 1"	4"	119
1665L	16L 1"	4 1/16"	119
1666M105L inch	16L 1"	4 1/8"	119
1667L	16L 1"	4 3/16"	119
1668L	16L 1"	4 1/4"	119
1669M110L inch	16L 1"	4 5/16"	119
1670L	16L 1"	4 3/8"	119
1671L	16L 1"	4 7/16"	119
1672L	16L 1"	4 1/2"	119
16M17B	16B 1"	17 mm	119
16M21B	16B 1"	21 mm	119
1624M38BS	16B 1"	38 mm	119
1613B	16B 1"	13/16"	119
1615B	16B 1"	15/16"	119
1613BL	16B 1"	13/16"	119
1615BL	16B 1"	15/16"	119
1624M38BS inch	16B 1"	1 1/2"	119
1612M19DH	16DH 1"	19	119
16M20DH	16DH 1"	20	119
16M21DH	16DH 1"	21	119
16M22DH	16DH 1"	22	119
16M23DH	16DH 1"	23	119
16M24DH	16DH 1"	24	119
16M25DH	16DH 1"	25	119
16M26DH	16DH 1"	26	119
1617M27DH	16DH 1"	27	119
16M28DH	16DH 1"	28	119
16M29DH	16DH 1"	29	119
1619M30DH	16DH 1"	30	119
16M31DH	16DH 1"	31	119
16M32DH	16DH 1"	32	119
16M33DH	16DH 1"	33	119
16M34DH	16DH 1"	34	119
1622M35DH	16DH 1"	35	119
16M36DH	16DH 1"	36	119
16M37DH	16DH 1"	37	119
1624M38DH	16DH 1"	38	119
16M39DH	16DH 1"	39	119
16M40DH	16DH 1"	40	119
1626M41DH	16DH 1"	41	119
16M42DH	16DH 1"	42	119
1627M43DH	16DH 1"	43	119
16M44DH	16DH 1"	44	119
16M45DH	16DH 1"	45	119
1629M46DH	16DH 1"	46	119
16M47DH	16DH 1"	47	119
16M48DH	16DH 1"	48	119
1631M49DH	16DH 1"	49	119
16M50DH	16DH 1"	50	119
1632M51DH	16DH 1"	51	119
16M52DH	16DH 1"	52	119
1634M54DH	16DH 1"	54	119
16M55DH	16DH 1"	55	119
16M56DH	16DH 1"	56	119
1636M57DH	16DH 1"	57	119
16M58DH	16DH 1"	58	119
1637M59DH	16DH 1"	59	119
16M60DH	16DH 1"	60	119
16M61DH	16DH 1"	61	119
1639M62DH	16DH 1"	62	119
1641M65DH	16DH 1"	65	119
1642M67DH	16DH 1"	67	119
1644M70DH	16DH 1"	70	119
1646M73DH	16DH 1"	73	119
1647M75DH	16DH 1"	75	119
1648M76DH	16DH 1"	76	119
16M77DH	16DH 1"	77	119
16M80DH	16DH 1"	80	119
16M85DH	16DH 1"	85	119
1654M86DH	16DH 1"	86	119
16M90DH	16DH 1"	90	119
1660M95DH	16DH 1"	95	119
1663M100DH	16DH 1"	100	119
1666M105DH	16DH 1"	105	119
1669M110DH	16DH 1"	110	119
16M115DH	16DH 1"	115	119
1612M19DH inch	16DH 1"	3/4"	119
1613DH	16DH 1"	13/16"	119
1614DH	16DH 1"	7/8"	119
1615DH	16DH 1"	15/16"	119
1616DH	16DH 1"	1"	119
1617M27DH inch	16DH 1"	1 1/16"	120
1618DH	16DH 1"	1 1/8"	120
1619M30DH inch	16DH 1"	1 3/16"	120
1620DH	16DH 1"	1 1/4"	120
1621DH	16DH 1"	1 5/16"	120
1622M35DH inch	16DH 1"	1 3/8"	120
1623DH	16DH 1"	1 7/16"	120
1624M38DH inch	16DH 1"	1 1/2"	120
1625DH	16DH 1"	1 9/16"	120
1626M41DH inch	16DH 1"	1 5/8"	120
1627M43DH inch	16DH 1"	1 11/16"	120
1628DH	16DH 1"	1 3/4"	120
1629M46DH inch	16DH 1"	1 13/16"	120
1630DH	16DH 1"	1 7/8"	120
1631M49DH inch	16DH 1"	1 15/16"	120
1632M51DH inch	16DH 1"	2"	120
1633DH	16DH 1"	2 1/16"	120
1634M54DH inch	16DH 1"	2 1/8"	120
1635DH	16DH 1"	2 3/16"	120
1636M57DH inch	16DH 1"	2 1/4"	120
1637M59DH inch	16DH 1"	2 5/16"	120
1638DH	16DH 1"	2 3/8"	120
1639M62DH inch	16DH 1"	2 7/16"	120
1640DH	16DH 1"	2 1/2"	120
1641M65DH inch	16DH 1"	2 9/16"	120
1642M67DH inch	16DH 1"	2 5/8"	120
1643DH	16DH 1"	2 11/16"	120
1644M70DH inch	16DH 1"	2 3/4"	120
1645DH	16DH 1"	2 13/16"	120
1646M73DH inch	16DH 1"	2 7/8"	120
1647M75DH inch	16DH 1"	2 15/16"	120
1648M76DH inch	16DH 1"	3"	120
1649DH	16DH 1"	3 1/16"	120
1650DH	16DH 1"	3 1/8"	120
1651DH	16DH 1"	3 3/16"	120
1652DH	16DH 1"	3 1/4"	120
1653DH	16DH 1"	3 5/16"	120
1654M86DH inch	16DH 1"	3 3/8"	120
1655DH	16DH 1"	3 7/16"	120
1656DH	16DH 1"	3 1/2"	120
1657DH	16DH 1"	3 9/16"	120
1658DH	16DH 1"	3 5/8"	120
1659DH	16DH 1"	3 11/16"	120
1660M95DH inch	16DH 1"	3 3/4"	120
1661DH	16DH 1"	3 13/16"	120
1662DH	16DH 1"	3 7/8"	120
1663M100DH inch	16DH 1"	3 15/16"	120
1664DH	16DH 1"	4"	120
1665DH	16DH 1"	4 1/16"	120
1666M105DH inch	16DH 1"	4 1/8"	120
1667DH	16DH 1"	4 3/16"	120
1668DH	16DH 1"	4 1/4"	120
1669M110DH inch	16DH 1"	4 5/16"	120
1670DH	16DH 1"	4 3/8"	120
1671DH	16DH 1"	4 7/16"	120
1672DH	16DH 1"	4 1/2"	120
16M22LT	16LT 1"	22	120
16M23LT	16LT 1"	23	120
16M24LT	16LT 1"	24	120
16M25LT	16LT 1"	25	120
16M26LT	16LT 1"	26	120
1617M27LT	16LT 1"	27	120
16M28LT	16LT 1"	28	120
16M29LT	16LT 1"	29	120
1619M30LT	16LT 1"	30	120
16M31LT	16LT 1"	31	120
16M32LT	16LT 1"	32	120
16M33LT	16LT 1"	33	120
16M34LT	16LT 1"	34	120
1622M35LT	16LT 1"	35	120
16M36LT	16LT 1"	36	120
16M37LT	16LT 1"	37	120
1624M38LT	16LT 1"	38	120
16M39LT	16LT 1"	39	120
16M40LT	16LT 1"	40	120
1626M41LT	16LT 1"	41	120
16M42LT	16LT 1"	42	120
1627M43LT	16LT 1"	43	120
16M44LT	16LT 1"	44	120
16M45LT	16LT 1"	45	120
1629M46LT	16LT 1"	46	120
1614LT	16LT 1"	7/8"	120
1615LT	16LT 1"	15/16"	120
1616LT	16LT 1"	1"	120
1617M27LT inch	16LT 1"	1.1/16"	120
1618LT	16LT 1"	1.1/8"	120
1619M30LT inch	16LT 1"	1.3/16"	120
1620LT	16LT 1"	1.1/4"	120
1621LT	16LT 1"	1.5/16"	120
1622M35LT inch	16LT 1"	1.3/8"	120
1623LT	16LT 1"	1.7/16"	120
1624M38LT inch	16LT 1"	1.1/2"	120
1625LT	16LT 1"	1.9/16"	120
1626M41LT inch	16LT 1"	1.5/8"	120
1627M43LT inch	16LT 1"	1.11/16"	120
1628LT	16LT 1"	1.3/4"	120
1629M46LT inch	16LT 1"	1.13/16"	120
1622M35DS	16DS 1"	35	120
1624M38DS	16DS 1"	38	120
1626M41DS	16DS 1"	41	120
1627M43DS	16DS 1"	43	120
1629M46DS	16DS 1"	46	120
1632M51DS	16DS 1"	51	120
1634M54DS	16DS 1"	54	120
1636M57DS	16DS 1"	57	120
1620DS	16DS 1"	1 1/4"	120
1621DS	16DS 1"	1 5/16"	120
1622M35DS inch	16DS 1"	1 3/8"	120
1623DS	16DS 1"	1 7/16"	120
1624M38DS inch	16DS 1"	1 1/2"	120
1625DS	16DS 1"	1 9/16"	120
1626M41DS inch	16DS 1"	1 5/8"	120
1627M43DS inch	16DS 1"	1 11/16"	120
1628DS	16DS 1"	1 3/4"	120
1629M46DS inch	16DS 1"	1 13/16"	120
1630DS	16DS 1"	1 7/8"	120
1632M51DS inch	16DS 1"	2"	120
1634M54DS inch	16DS 1"	2 1/8"	120
1635DS	16DS 1"	2 3/16"	120
1636M57DS inch	16DS 1"	2 1/4"	120
1638DS	16DS 1"	2 3/8"	120
1640DS	16DS 1"	2 1/2"	120
1622M35LDS	16LDS 1"	35	121
1624M38LDS	16LDS 1"	38	121
1626M41LDS	16LDS 1"	41	121
1627M43LDS	16LDS 1"	43	121
1629M46LDS	16LDS 1"	46	121
1632M51LDS	16LDS 1"	51	121
1634M54LDS	16LDS 1"	54	121
1636M57LDS	16LDS 1"	57	121
1620LDS	16LDS 1"	1 1/4"	121
1621LDS	16LDS 1"	1 5/16"	121
1622M35LDS inch	16LDS 1"	1 3/8"	121
1623LDS	16LDS 1"	1 7/16"	121
1624M38LDS inch	16LDS 1"	1 1/2"	121
1625LDS	16LDS 1"	1 9/16"	121
1626M41LDS inch	16LDS 1"	1 5/8"	121
1627M43LDS inch	16LDS 1"	1 11/16"	121
1628LDS	16LDS 1"	1 3/4"	121
1629M46LDS inch	16LDS 1"	1 13/16"	121
1630LDS	16LDS 1"	1 7/8"	121
1632M51LDS inch	16LDS 1"	2"	121
1634M54LDS inch	16LDS 1"	2 1/8"	121
1635LDS	16LDS 1"	2 3/16"	121
1636M57LDS inch	16LDS 1"	2 1/4"	121
1638LDS	16LDS 1"	2 3/8"	121

1640LDS	16LDS 1"	2 1/2"	121
16M10H		10	121
16M11H		11	121
16M12H		12	121
16M13H		13	121
16M14H		14	121
16M15H		15	121
16M16H		16	121
16M17H		17	121
16M18H		18	121
16M19H		19	121
16M20H		20	121
16M21H		21	121
16M22H		22	121
16M23H		23	121
16M24H		24	121
16M25H		25	121
16M26H		26	121
16M27H		27	121
16M28H		28	121
16M29H		29	121
16M30H		30	121
16M31H		31	121
16M32H		32	121
1608H		1/2"	121
1609H		9/16"	121
1610H		5/8"	121
1612H		3/4"	121
1613H		13/16"	121
1614H		7/8"	121
1616H		1"	121
1617H		1 1/16"	121
1618H		1 1/8"	121
1619H		1 3/16"	121
1620H		1 1/4"	121
16H16	16H 1"	9-16 mm si 3/8"-5/8"	121
16H22	16H 1"	17-22 mm si 3/4"-7/8"	121
16H32	16H 1"	23-32 mm si 1"-1 1/4"	121
HM10		10	121
HM11		11	121
HM12		12	121
HM13		13	121
HM14		14	121
HM15		15	121
HM16		16	121
HM17		17	121
HM18		18	121
HM19		19	121
HM20		20	121
HM21		21	121
HM22		22	121
HM23		23	121
HM24		24	121
HM25		25	121
HM26		26	121
HM27		27	121
HM28		28	121
HM29		29	121
HM30		30	121
HM31		31	121
HM32		32	121
H08		1/2"	121
H09		9/16"	121
H10		5/8"	121
H12		3/4"	121
H13		13/16"	121
H14		7/8"	121
H16		1"	121
H17		1 1/16"	121
H18		1 1/8"	121
H19		1 3/16	121
H20		1 1/4"	121
16M10HL4	16HL4 1"	10	122
16M12HL4	16HL4 1"	12	122
16M14HL4	16HL4 1"	14	122
16M17HL4	16HL4 1"	17	122
16M19HL4	16HL4 1"	19	122
16M22HL4	16HL4 1"	22	122
16M24HL4	16HL4 1"	24	122
16M27HL4	16HL4 1"	27	122
16M30HL4	16HL4 1"	30	122
16M32HL4	16HL4 1"	32	122
1608HL4	16HL4 1"	1/2"	122
1609HL4	16HL4 1"	9/16"	122
1610HL4	16HL4 1"	5/8"	122
1612HL4	16HL4 1"	3/4"	122
1613HL4	16HL4 1"	13/16"	122
1614HL4	16HL4 1"	7/8"	122
1616HL4	16HL4 1"	1"	122
1617HL4	16HL4 1"	1 1/16"	122
1618HL4	16HL4 1"	1 1/8"	122
1619HL4	16HL4 1"	1 3/16"	122
1620HL4	16HL4 1"	1 1/4"	122
16M10HL6	16HL6 1"	10	122
16M12HL6	16HL6 1"	12	122
16M14HL6	16HL6 1"	14	122
16M17HL6	16HL6 1"	17	122
16M19HL6	16HL6 1"	19	122
16M22HL6	16HL6 1"	22	122
16M24HL6	16HL6 1"	24	122
16M27HL6	16HL6 1"	27	122
16M30HL6	16HL6 1"	30	122
16M32HL6	16HL6 1"	32	122
1608HL6	16HL6 1"	1/2"	122
1609HL6	16HL6 1"	9/16"	122
1610HL6	16HL6 1"	5/8"	122
1612HL6	16HL6 1"	3/4"	122
1613HL6	16HL6 1"	13/16"	122
1614HL6	16HL6 1"	7/8"	122
1616HL6	16HL6 1"	1"	122
1617HL6	16HL6 1"	1 1/16"	122
1618HL6	16HL6 1"	1 1/8"	122
1619HL6	16HL6 1"	1 3/16"	122
1620HL6	16HL6 1"	1 1/4"	122
16M24Q300	16Q 1"	24	122
16M27Q350	16Q 1"	27	122
16M27Q450	16Q 1"	1 1/16"	122
16M30Q450	16Q 1"	30	122
16M30Q550	16Q 1"	1 3/16"	122
16M32Q500	16Q 1"	32	122
16M32Q600	16Q 1"	32	122
16M32Q700	16Q 1"	32	122
16M33Q500	16Q 1"	33	122
16M33Q600	16Q 1"	33	122
16M33Q650	16Q 1"	33	122
16M38Q500	16Q 1"	38	122
A1612	A16 1"	1"	122
A1624	A16 1"	1"	122
A1695	A16 1"	1"	122
AN1612	AN16 1"	1"	123
AN1616	AN16 1"	1"	123
AN2416	AN16 1"	1 1/2"	123
Z1603	Z16 1"	1"	123
Z1604	Z16 1"	1"	123
Z1605	Z16 1"	1"	123
Z1606	Z16 1"	1"	123
Z1607	Z16 1"	1"	123
Z1610	Z16 1"	1"	123
Z1613	Z16 1"	1"	123
Z1615	Z16 1"	1"	123
Z1616	Z16 1"	1"	123
Z1617	Z16 1"	1"	123
E1604	E16 1"	1"	123
E1605	E16 1"	1"	123
E1607	E16 1"	1"	123
E1610	E16 1"	1"	123
E1613	E16 1"	1"	123
U1616	U16 1"	1"	123
P16127	PR16 1"	1"	123
P1654	PR16 1"	1"	123
P1686	PR16 1"	1"	123
R16127	PR16 1"	1"	123
R1654	PR16 1"	1"	123
R1686	PR16 1"	1"	123
615214	233.4/4	1"	123
615215	233.4/4	1"	123
615216	233.6/4	1"	123
615217	233.7/4	1" - 3/4"	123
617303	233.7/4	1" - 1.1/2"	123
615254	233.8/4	22 - 70	123
615255	233.8/4	75 - 80	123
24M32	24 1.1/2"	32	124
24M33	25 1.1/2"	33	124
24M34	26 1.1/2"	34	124
2422M35	27 1.1/2"	35	124
24M36	28 1.1/2"	36	124
24M37	29 1.1/2"	37	124
2424M38	30 1.1/2"	38	124
24M39	31 1.1/2"	39	124
24M40	32 1.1/2"	40	124
2426M41	33 1.1/2"	41	124
24M42	34 1.1/2"	42	124
2427M43	35 1.1/2"	43	124
24M44	36 1.1/2"	44	124
24M45	37 1.1/2"	45	124
2429M46	38 1.1/2"	46	124
24M47	39 1.1/2"	47	124
24M48	40 1.1/2"	48	124
2431M49	41 1.1/2"	49	124
24M50	42 1.1/2"	50	124
2432M51	43 1.1/2"	51	124
24M52	44 1.1/2"	52	124
2434M54	45 1.1/2"	54	124
24M55	46 1.1/2"	55	124
24M56	47 1.1/2"	56	124
2436M57	48 1.1/2"	57	124
24M58	49 1.1/2"	58	124
2437M59	50 1.1/2"	59	124
24M60	51 1.1/2"	60	124
24M61	52 1.1/2"	61	124
2439M62	53 1.1/2"	62	124
2441M65	54 1.1/2"	65	124
2442M67	55 1.1/2"	67	124
2444M70	56 1.1/2"	70	124
2446M73	57 1.1/2"	73	124
2447M75	58 1.1/2"	75	124
2448M76	59 1.1/2"	76	124
24M77	60 1.1/2"	77	124
24M80	61 1.1/2"	80	124
24M85	62 1.1/2"	85	124
2454M86	63 1.1/2"	86	124
24M90	64 1.1/2"	90	124
2460M95	65 1.1/2"	95	124
2463M100	66 1.1/2"	100	124
2466M105	67 1.1/2"	105	124
2469M110	68 1.1/2"	110	124
24M115	69 1.1/2"	115	124
24M120	70 1.1/2"	120	124
24M125	71 1.1/2"	125	124
2482M130	72 1.1/2"	130	124
2421	73 1.1/2"	1 5/16"	124
2422M35 inch	74 1.1/2"	1 3/8"	124
2423	75 1.1/2"	1 7/16"	124
2424M38 inch	76 1.1/2"	1 1/2"	124
2425	77 1.1/2"	1 9/16"	124
2426M41 inch	78 1.1/2"	1 5/8"	124
2427M43 inch	79 1.1/2"	1 11/16"	124
2428	80 1.1/2"	1 3/4"	124
2429M46 inch	81 1.1/2"	1 13/16"	124
2430	82 1.1/2"	1 7/8"	124
2431M49 inch	83 1.1/2"	1 15/16"	124
2432M51 inch	84 1.1/2"	2"	124
2433	85 1.1/2"	2 1/16"	124
2434M54 inch	86 1.1/2"	2 1/8"	124
2435	87 1.1/2"	2 3/16"	124
2436M57 inch	88 1.1/2"	2 1/4"	124
2437M59 inch	89 1.1/2"	2 5/16"	124
2438	90 1.1/2"	2 3/8"	124
2439M62 inch	91 1.1/2"	2 7/16"	124
2440	92 1.1/2"	2 1/2"	124
2441M65 inch	93 1.1/2"	2 9/16"	124
2442M67 inch	94 1.1/2"	2 5/8"	124
2443	95 1.1/2"	2 11/16"	124
2444M70 inch	96 1.1/2"	2 3/4"	124
2445	97 1.1/2"	2 13/16"	124
2446M73 inch	98 1.1/2"	2 7/8"	124
2447M75 inch	99 1.1/2"	2 15/16"	124
2448M76 inch	100 1.1/2"	3"	124
2449	101 1.1/2"	3 1/16"	124
2450	102 1.1/2"	3 1/8"	124
2451	103 1.1/2"	3 3/16"	124
2452	104 1.1/2"	3 1/4"	124
2453	105 1.1/2"	3 5/16"	124
2454M86 inch	106 1.1/2"	3 3/8"	124
2455	107 1.1/2"	3 7/16"	124
2456	108 1.1/2"	3 1/2"	124
2457	109 1.1/2"	3 9/16"	124
2458	110 1.1/2"	3 5/8"	124
2459	111 1.1/2"	3 11/16"	124
2460M95 inch	112 1.1/2"	3 3/4"	124
2461	113 1.1/2"	3 13/16"	124
2462	114 1.1/2"	3 7/8"	124
2463M100 inch	115 1.1/2"	3 15/16"	124
2464	116 1.1/2"	4"	124
2465	117 1.1/2"	4 1/16"	124
2466M105 inch	118 1.1/2"	4 1/8"	124
2467	119 1.1/2"	4 3/16"	124
2468	120 1.1/2"	4 1/4"	124
2469M110 inch	121 1.1/2"	4 5/16"	124
2470	122 1.1/2"	4 3/8"	124
2471	123 1.1/2"	4 7/16"	124
2472	124 1.1/2"	4 1/2"	124
2474	125 1.1/2"	4 5/8"	124
2476	126 1.1/2"	4 3/4"	124
2478	127 1.1/2"	4 7/8"	124
2480	128 1.1/2"	5"	124
2482M130 inch	129 1.1/2"	5 1/8"	124
2483	130 1.1/2"	5 3/16"	124
2486	131 1.1/2"	5 3/8"	124
616790	234/4 6p	80	124
616791	234/4 6p	85	124
616793	234/4 6p	90	124
616794	234/4 6p	95	124
616795	234/4 6p	100	124
616796	234/4 6p	105	124
616797	234/4 6p	110	124
616798	234/4 6p	115	124
616799	234/4 6p	120	124
24M32L	24L 1.1/2"	32	125
24M33L	24L 1.1/2"	33	125
24M34L	24L 1.1/2"	34	125
2422M35L	24L 1.1/2"	35	125
24M36L	24L 1.1/2"	36	125
24M37L	24L 1.1/2"	37	125
2424M38L	24L 1.1/2"	38	125
24M39L	24L 1.1/2"	39	125
24M40L	24L 1.1/2"	40	125
2426M41L	24L 1.1/2"	41	125
24M42L	24L 1.1/2"	42	125
2427M43L	24L 1.1/2"	43	125
24M44L	24L 1.1/2"	44	125
24M45L	24L 1.1/2"	45	125
2429M46L	24L 1.1/2"	46	125
24M47L	24L 1.1/2"	47	125
24M48L	24L 1.1/2"	48	125
2431M49L	24L 1.1/2"	49	125
24M50L	24L 1.1/2"	50	125
2432M51L	24L 1.1/2"	51	125
24M52L	24L 1.1/2"	52	125
2434M54L	24L 1.1/2"	54	125
24M55L	24L 1.1/2"	55	125
24M56L	24L 1.1/2"	56	125
2436M57L	24L 1.1/2"	57	125
24M58L	24L 1.1/2"	58	125
2437M59L	24L 1.1/2"	59	125
24M60L	24L 1.1/2"	60	125
24M61L	24L 1.1/2"	61	125
2439M62L	24L 1.1/2"	62	125
2441M65L	24L 1.1/2"	65	125
2442M67L	24L 1.1/2"	67	125
2444M70L	24L 1.1/2"	70	125
2446M73L	24L 1.1/2"	73	125
2447M75L	24L 1.1/2"	75	125
2448M76L	24L 1.1/2"	76	125
24M77L	24L 1.1/2"	77	125
24M80L	24L 1.1/2"	80	125
24M85L	24L 1.1/2"	85	125
2454M86L	24L 1.1/2"	86	125

24M90L	24L 1.1/2"	90	125
2460M95L	24L 1.1/2"	95	125
2463M100L	24L 1.1/2"	100	125
2466M105L	24L 1.1/2"	105	125
2469M110L	24L 1.1/2"	110	125
24M115L	24L 1.1/2"	115	125
24M120L	24L 1.1/2"	120	125
24M125L	24L 1.1/2"	125	125
2482M130L	24L 1.1/2"	130	125
2421L	24L 1.1/2"	1 5/16"	125
2422M35L inch	24L 1.1/2"	1 3/8"	125
2423L	24L 1.1/2"	1 7/16"	125
2424M38L inch	24L 1.1/2"	1 1/2"	125
2425L	24L 1.1/2"	1 9/16"	125
2426M41L inch	24L 1.1/2"	1 5/8"	125
2427M43L inch	24L 1.1/2"	1 11/16"	125
2428L	24L 1.1/2"	1 3/4"	125
2429M46L inch	24L 1.1/2"	1 13/16"	125
2430L	24L 1.1/2"	1 7/8"	125
2431M49L inch	24L 1.1/2"	1 15/16"	125
2432M51L inch	24L 1.1/2"	2"	125
2433L	24L 1.1/2"	2 1/16"	125
2434M54L inch	24L 1.1/2"	2 1/8"	125
2435L	24L 1.1/2"	2 3/16"	125
2436M57L inch	24L 1.1/2"	2 1/4"	125
2437M59L inch	24L 1.1/2"	2 5/16"	125
2438L	24L 1.1/2"	2 3/8"	125
2439M62L inch	24L 1.1/2"	2 7/16"	125
2440L	24L 1.1/2"	2 1/2"	125
2441M65L inch	24L 1.1/2"	2 9/16"	125
2442M67L inch	24L 1.1/2"	2 5/8"	125
2443L	24L 1.1/2"	2 11/16"	125
2444M70L inch	24L 1.1/2"	2 3/4"	125
2445L	24L 1.1/2"	2 13/16"	125
2446M73L inch	24L 1.1/2"	2 7/8"	125
2447M75L inch	24L 1.1/2"	2 15/16"	125
2448M76L inch	24L 1.1/2"	3"	125
2449L	24L 1.1/2"	3 1/16"	125
2450L	24L 1.1/2"	3 1/8"	125
2451L	24L 1.1/2"	3 3/16"	125
2452L	24L 1.1/2"	3 1/4"	125
2453L	24L 1.1/2"	3 5/16"	125
2454M86L inch	24L 1.1/2"	3 3/8"	125
2455L	24L 1.1/2"	3 7/16"	125
2456L	24L 1.1/2"	3 1/2"	125
2457L	24L 1.1/2"	3 9/16"	125
2458L	24L 1.1/2"	3 5/8"	125
2459L	24L 1.1/2"	3 11/16"	125
2460M95L inch	24L 1.1/2"	3 3/4"	125
2461L	24L 1.1/2"	3 13/16"	125
2462L	24L 1.1/2"	3 7/8"	125
2463M100L inch	24L 1.1/2"	3 15/16"	125
2464L	24L 1.1/2"	4"	125
2465L	24L 1.1/2"	4 1/16"	125
2466M105L inch	24L 1.1/2"	4 1/8"	125
2467L	24L 1.1/2"	4 3/16"	125
2468L	24L 1.1/2"	4 1/4"	125
2469M110L inch	24L 1.1/2"	4 5/16"	125
2470L	24L 1.1/2"	4 3/8"	125
2471L	24L 1.1/2"	4 7/16"	125
2472L	24L 1.1/2"	4 1/2"	125
2474L	24L 1.1/2"	4 5/8"	125
2476L	24L 1.1/2"	4 3/4"	125
2478L	24L 1.1/2"	4 7/8"	125
2480L	24L 1.1/2"	5"	125
2482M130L	24L 1.1/2"	5 1/8"	125
2483L	24L 1.1/2"	5 3/16"	125
2486L	24L 1.1/2"	5 3/8"	125
24M32DH	24DH 1.1/2"	32	125
24M33DH	24DH 1.1/2"	33	125
24M34DH	24DH 1.1/2"	34	125
2422M35DH	24DH 1.1/2"	35	125
24M36DH	24DH 1.1/2"	36	125
24M37DH	24DH 1.1/2"	37	125
2424M38DH	24DH 1.1/2"	38	125
24M39DH	24DH 1.1/2"	39	125
24M40DH	24DH 1.1/2"	40	125
2426M41DH	24DH 1.1/2"	41	125
24M42DH	24DH 1.1/2"	42	125
2427M43DH	24DH 1.1/2"	43	125
24M44DH	24DH 1.1/2"	44	125
24M45DH	24DH 1.1/2"	45	125
2429M46DH	24DH 1.1/2"	46	125
24M47DH	24DH 1.1/2"	47	125
24M48DH	24DH 1.1/2"	48	125
2431M49DH	24DH 1.1/2"	49	125
24M50DH	24DH 1.1/2"	50	125
2432M51DH	24DH 1.1/2"	51	125
24M52DH	24DH 1.1/2"	52	125
2434M54DH	24DH 1.1/2"	54	125
24M55DH	24DH 1.1/2"	55	125
24M56DH	24DH 1.1/2"	56	125
2436M57DH	24DH 1.1/2"	57	125
24M58DH	24DH 1.1/2"	58	125
2437M59DH	24DH 1.1/2"	59	125
24M60DH	24DH 1.1/2"	60	125
24M61DH	24DH 1.1/2"	61	125
2439M62DH	24DH 1.1/2"	62	125
2441M65DH	24DH 1.1/2"	65	125
2442M67DH	24DH 1.1/2"	67	125
2444M70DH	24DH 1.1/2"	70	125
2446M73DH	24DH 1.1/2"	73	126
2447M75DH	24DH 1.1/2"	75	126
2448M76DH	24DH 1.1/2"	76	126
24M77DH	24DH 1.1/2"	77	126
24M80DH	24DH 1.1/2"	80	126
24M85DH	24DH 1.1/2"	85	126
2454M86DH	24DH 1.1/2"	86	126
24M90DH	24DH 1.1/2"	90	126
2460M95DH	24DH 1.1/2"	95	126
2463M100DH	24DH 1.1/2"	100	126
2466M105DH	24DH 1.1/2"	105	126
2469M110DH	24DH 1.1/2"	110	126
24M115DH	24DH 1.1/2"	115	126
24M120DH	24DH 1.1/2"	120	126
24M125DH	24DH 1.1/2"	125	126
2421DH	24DH 1.1/2"	1 5/16"	126
2422M35DH inch	24DH 1.1/2"	1 3/8"	126
2423DH	24DH 1.1/2"	1 7/16"	126
2424M38DH inch	24DH 1.1/2"	1 1/2"	126
2425DH	24DH 1.1/2"	1 9/16"	126
2426M41DH inch	24DH 1.1/2"	1 5/8"	126
2427M43DH inch	24DH 1.1/2"	1 11/16"	126
2428DH	24DH 1.1/2"	1 3/4"	126
2429M46DH inch	24DH 1.1/2"	1 13/16"	126
2430DH	24DH 1.1/2"	1 7/8"	126
2431M49DH inch	24DH 1.1/2"	1 15/16"	126
2432M51DH inch	24DH 1.1/2"	2"	126
2433DH	24DH 1.1/2"	2 1/16"	126
2434M54DH inch	24DH 1.1/2"	2 1/8"	126
2435DH	24DH 1.1/2"	2 3/16"	126
2436M57DH inch	24DH 1.1/2"	2 1/4"	126
2437M59DH inch	24DH 1.1/2"	2 5/16"	126
2438DH	24DH 1.1/2"	2 3/8"	126
2439M62DH inch	24DH 1.1/2"	2 7/16"	126
2440DH	24DH 1.1/2"	2 1/2"	126
2441M65DH inch	24DH 1.1/2"	2 9/16"	126
2442M67DH inch	24DH 1.1/2"	2 5/8"	126
2443DH	24DH 1.1/2"	2 11/16"	126
2444M70DH inch	24DH 1.1/2"	2 3/4"	126
2445DH	24DH 1.1/2"	2 13/16"	126
2446M73DH inch	24DH 1.1/2"	2 7/8"	126
2447M75DH inch	24DH 1.1/2"	2 15/16"	126
2448M76DH inch	24DH 1.1/2"	3"	126
2449DH	24DH 1.1/2"	3 1/16"	126
2450DH	24DH 1.1/2"	3 1/8"	126
2451DH	24DH 1.1/2"	3 3/16"	126
2452DH	24DH 1.1/2"	3 1/4"	126
2453DH	24DH 1.1/2"	3 5/16"	126
2454M86DH inch	24DH 1.1/2"	3 3/8"	126
2455DH	24DH 1.1/2"	3 7/16"	126
2456DH	24DH 1.1/2"	3 1/2"	126
2457DH	24DH 1.1/2"	3 9/16"	126
2458DH	24DH 1.1/2"	3 5/8"	126
2459DH	24DH 1.1/2"	3 11/16"	126
2460M95DH inch	24DH 1.1/2"	3 3/4"	126
2461DH	24DH 1.1/2"	3 13/16"	126
2462DH	24DH 1.1/2"	3 7/8"	126
2463M100DH inch	24DH 1.1/2"	3 15/16"	126
2464DH	24DH 1.1/2"	4"	126
2465DH	24DH 1.1/2"	4 1/16"	126
2466M105DH inch	24DH 1.1/2"	4 1/8"	126
2467DH	24DH 1.1/2"	4 3/16"	126
2468DH	24DH 1.1/2"	4 1/4"	126
2469M110DH inch	24DH 1.1/2"	4 5/16"	126
2470DH	24DH 1.1/2"	4 3/8"	126
2471DH	24DH 1.1/2"	4 7/16"	126
2472DH	24DH 1.1/2"	4 1/2"	126
2474DH	24DH 1.1/2"	4 5/8"	126
2476DH	24DH 1.1/2"	4 3/4"	126
2478DH	24DH 1.1/2"	4 7/8"	126
2480DH	24DH 1.1/2"	5"	126
2482M130DH inch	24DH 1.1/2"	5 1/8"	126
2483DH	24DH 1.1/2"	5 3/16"	126
2486DH	24DH 1.1/2"	5 3/8"	126
24M22V	24V 1.1/2"	22	126
24M24V	24V 1.1/2"	24	126
24M27V	24V 1.1/2"	27	126
24M30V	24V 1.1/2"	30	126
24M32V	24V 1.1/2"	32	126
24M36V	24V 1.1/2"	36	126
24M38V	24V 1.1/2"	38	126
24M41V	24V 1.1/2"	41	126
24M46V	24V 1.1/2"	46	126
24M50V	24V 1.1/2"	50	126
24M55V	24V 1.1/2"	55	126
2416V	24V 1.1/2"	1"	126
2418V	24V 1.1/2"	1.1/8"	126
2420V	24V 1.1/2"	1.1/4"	126
2422V	24V 1.1/2"	1.3/8"	126
2424V	24V 1.1/2"	1.1/2"	126
2426V	24V 1.1/2"	1.5/8"	126
2428V	24V 1.1/2"	1.3/4"	126
2429V	24V 1.1/2"	1.13/16"	126
2430V	24V 1.1/2"	1.7/8"	126
2432V	24V 1.1/2"	2"	126
2434V	24V 1.1/2"	2.1/8"	126
HM22	H24 1.1/2"	22 mm	126
HM24	H24 1.1/2"	24 mm	126
HM27	H24 1.1/2"	27 mm	126
HM30	H24 1.1/2"	30 mm	126
HM32	H24 1.1/2"	32 mm	126
HM36	H24 1.1/2"	36 mm	126
HM38	H24 1.1/2"	38 mm	126
HM41	H24 1.1/2"	41 mm	126
HM46	H24 1.1/2"	46 mm	126
HM50	H24 1.1/2"	50 mm	126
HM55	H24 1.1/2"	55 mm	126
H16	H24 1.1/2"	1"	126
H18	H24 1.1/2"	1 1/8"	126
H20	H24 1.1/2"	1 1/4"	126
H22	H24 1.1/2"	1 3/8"	126
H24	H24 1.1/2"	1 1/2"	126
H26	H24 1.1/2"	1 5/8"	126
H28	H24 1.1/2"	1 3/4"	126
H29	H24 1.1/2"	1 13/16"	126
H30	H24 1.1/2"	1 7/8"	126
H32	H24 1.1/2"	2"	126
H34	H24 1.1/2"	2 1/8"	126
24H22	24H 1.1/2"	17-22 mm si 3/4"-7/8"	127
24H32	24H 1.1/2"	23-32 mm si 1"-1.1/4"	127
24H41	24H 1.1/2"	36-41 mm si 1.3/8"-1.3/4"	127
24H55	24H 1.1/2"	46-55 mm si 1.13/16"-2.1/8"	127
A2416	A24 1.1/2"	1 1/2"	127
A2440	A24 1.1/2"	1 1/2"	127
A2495	A24 1.1/2"	1 1/2"	127
617709	234.4/4	1 1/2"	127
E2406	E24 1.1/2"	1 1/2"	127
E2409	E24 1.1/2"	1 1/2"	127
E2412	E24 1.1/2"	1 1/2"	127
E2420	E24 1.1/2"	1 1/2"	127
616800	234.7/4	1.1/2" - 1"	127
617711	234.7/4	1.1/2" - 2.1/2"	127
Z2404	Z24 1.1/2"	1 1/2"	127
Z2405	Z24 1.1/2"	1 1/2"	127
Z2410	Z24 1.1/2"	1 1/2"	127
Z2420	Z24 1.1/2"	1 1/2"	127
AN2416	AN24 1.1/2"	1 1/2"	127
AN2424	AN24 1.1/2"	1 1/2"	127
AN4024	AN24 1.1/2"	2 1/2"	127
617689	234.6/4	1,1/2	128
U2424	U24 1.1/2"	1,1/2	128
P2486	PR24 1.1/2"	1,1/2	128
P24127	PR24 1.1/2"	1,1/2	128
R2486	PR24 1.1/2"	1,1/2	128
R24127	PR24 1.1/2"	1,1/2	128
617126	234.8/4	80 - 90	128
617127	234.8/4	95 - 120	128
4026M41	40 2.1/2"	41	128
40M42	41 2.1/2"	42	128
4027M43	42 2.1/2"	43	128
40M44	43 2.1/2"	44	128
40M45	44 2.1/2"	45	128
4029M46	45 2.1/2"	46	128
40M47	46 2.1/2"	47	128
40M48	47 2.1/2"	48	128
4031M49	48 2.1/2"	49	128
40M50	49 2.1/2"	50	128
4032M51	50 2.1/2"	51	128
40M52	51 2.1/2"	52	128
4034M54	52 2.1/2"	54	128
40M55	53 2.1/2"	55	128
40M56	54 2.1/2"	56	128
4036M57	55 2.1/2"	57	128
40M58	56 2.1/2"	58	128
4037M59	57 2.1/2"	59	128
40M60	58 2.1/2"	60	128
40M61	59 2.1/2"	61	128
4039M62	60 2.1/2"	62	128
4041M65	61 2.1/2"	65	128
4042M67	62 2.1/2"	67	128
4044M70	63 2.1/2"	70	128
4046M73	64 2.1/2"	73	128
4047M75	65 2.1/2"	75	128
4048M76	66 2.1/2"	76	128
40M77	67 2.1/2"	77	128
40M80	68 2.1/2"	80	128
40M85	69 2.1/2"	85	128
4054M86	70 2.1/2"	86	128
40M90	71 2.1/2"	90	128
4060M95	72 2.1/2"	95	128
4063M100	73 2.1/2"	100	128
4066M105	74 2.1/2"	105	128
4069M110	75 2.1/2"	110	128
40M115	76 2.1/2"	115	128
40M120	77 2.1/2"	120	128
40M125	78 2.1/2"	125	128
4082M130	79 2.1/2"	130	128
40M135	80 2.1/2"	135	128
4088M140	81 2.1/2"	140	128
40M145	82 2.1/2"	145	128
4094M150	83 2.1/2"	150	128
40M155	84 2.1/2"	155	128
40M160	85 2.1/2"	160	128
40104M165	86 2.1/2"	165	128
40M170	87 2.1/2"	170	128
40110M175	88 2.1/2"	175	128
40M180	89 2.1/2"	180	128
40116M185	90 2.1/2"	185	128
40M190	91 2.1/2"	190	128
40122M195	92 2.1/2"	195	128
40125M200	93 2.1/2"	200	128
40132M210	94 2.1/2"	210	128
40M215	95 2.1/2"	215	128
40142M225	96 2.1/2"	225	128
40M230	97 2.1/2"	230	128
40M235	98 2.1/2"	235	128
4026M41 inch	99 2.1/2"	1 5/8"	128
4027M43 inch	100 2.1/2"	1 11/16"	128
4028	101 2.1/2"	1 3/4"	129
4029M46 inch	102 2.1/2"	1 13/16"	129
4030	103 2.1/2"	1 7/8"	129
4031M49 inch	104 2.1/2"	1 15/16"	129
4032M51 inch	105 2.1/2"	2"	129
4033	106 2.1/2"	2 1/16"	129
4034M54 inch	107 2.1/2"	2 1/8"	129
4035	108 2.1/2"	2 3/16"	129

4036M57 inch	109 2.1/2"	2 1/4"	129
4037M59 inch	110 2.1/2"	2 5/16"	129
4038	111 2.1/2"	2 3/8"	129
4039M62 inch	112 2.1/2"	2 7/16"	129
4040	113 2.1/2"	2 1/2"	129
4041M65 inch	114 2.1/2"	2 9/16"	129
4042M67 inch	115 2.1/2"	2 5/8"	129
4043	116 2.1/2"	2 11/16"	129
4044M70 inch	117 2.1/2"	2 3/4"	129
4045	118 2.1/2"	2 13/16"	129
4046M73 inch	119 2.1/2"	2 7/8"	129
4047M75 inch	120 2.1/2"	2 15/16"	129
4048M76 inch	121 2.1/2"	3"	129
4049	122 2.1/2"	3 1/16"	129
4050	123 2.1/2"	3 1/8"	129
4051	124 2.1/2"	3 3/16"	129
4052	125 2.1/2"	3 1/4"	129
4053	126 2.1/2"	3 5/16"	129
4054M86 inch	127 2.1/2"	3 3/8"	129
4055	128 2.1/2"	3 7/16"	129
4056	129 2.1/2"	3 1/2"	129
4057	130 2.1/2"	3 9/16"	129
4058	131 2.1/2"	3 5/8"	129
4059	132 2.1/2"	3 11/16"	129
4060M95 inch	133 2.1/2"	3 3/4"	129
4061	134 2.1/2"	3 13/16"	129
4062	135 2.1/2"	3 7/8"	129
4063M100 inch	136 2.1/2"	3 15/16"	129
4064	137 2.1/2"	4"	129
4065	138 2.1/2"	4 1/16"	129
4066M105 inch	139 2.1/2"	4 1/8"	129
4067	140 2.1/2"	4 3/16"	129
4068	141 2.1/2"	4 1/4"	129
4069M110 inch	142 2.1/2"	4 5/16"	129
4070	143 2.1/2"	4 3/8"	129
4071	144 2.1/2"	4 7/16"	129
4072	145 2.1/2"	4 1/2"	129
4074	146 2.1/2"	4 5/8"	129
4076	147 2.1/2"	4 3/4"	129
4078	148 2.1/2"	4 7/8"	129
4080	149 2.1/2"	5"	129
4082M130	150 2.1/2"	5 1/8"	129
4083	151 2.1/2"	5 3/16"	129
4084	152 2.1/2"	5 1/4"	129
4086	153 2.1/2"	5 3/8"	129
4088M140 inch	154 2.1/2"	5 1/2"	129
4090	155 2.1/2"	5 5/8"	129
4092	156 2.1/2"	5 3/4"	129
4094M150 inch	157 2.1/2"	5 7/8"	129
4096	158 2.1/2"	6"	129
4098	159 2.1/2"	6 1/8"	129
40100	160 2.1/2"	6 1/4"	129
40102	161 2.1/2"	6 3/8"	129
40104M165 inch	162 2.1/2"	6 1/2"	129
40106	163 2.1/2"	6 5/8"	129
40108	164 2.1/2"	6 3/4"	129
40110M175 inch	165 2.1/2"	6 7/8"	129
40112	166 2.1/2"	7"	129
40114	167 2.1/2"	7 1/8"	129
40116M185 inch	168 2.1/2"	7 1/4"	129
40118	169 2.1/2"	7 3/8"	129
40120	170 2.1/2"	7 1/2"	129
40122M195 inch	171 2.1/2"	7 5/8"	129
40124	172 2.1/2"	7 3/4"	129
40125M200 inch	173 2.1/2"	7 13/16"	129
40126	174 2.1/2"	7 7/8"	129
40128	175 2.1/2"	8"	129
40130	176 2.1/2"	8 1/8"	129
40132M210 inch	177 2.1/2"	8 1/4"	129
40134	178 2.1/2"	8 3/8"	129
40136	179 2.1/2"	8 1/2"	129
40140	180 2.1/2"	8 3/4"	129
40142M225 inch	181 2.1/2"	8 7/8"	129
40144	182 2.1/2"	9"	129
40146	183 2.1/2"	9 1/8"	129
40148	184 2.1/2"	9 1/4"	129
4026M41L	40L 2.1/2"	41	129
40M42L	40L 2.1/2"	42	129
4027M43L	40L 2.1/2"	43	129
40M44L	40L 2.1/2"	44	129
40M45L	40L 2.1/2"	45	129
4029M46L	40L 2.1/2"	46	129
40M47L	40L 2.1/2"	47	129
40M48L	40L 2.1/2"	48	129
4031M49L	40L 2.1/2"	49	129
40M50L	40L 2.1/2"	50	129
4032M51L	40L 2.1/2"	51	129
40M52L	40L 2.1/2"	52	129
4034M54L	40L 2.1/2"	54	129
40M55L	40L 2.1/2"	55	129
40M56L	40L 2.1/2"	56	129
4036M57L	40L 2.1/2"	57	129
40M58L	40L 2.1/2"	58	129
4037M59L	40L 2.1/2"	59	129
40M60L	40L 2.1/2"	60	129
40M61L	40L 2.1/2"	61	129
4039M62L	40L 2.1/2"	62	129
4041M65L	40L 2.1/2"	65	129
4042M67L	40L 2.1/2"	67	129
4044M70L	40L 2.1/2"	70	129
4046M73L	40L 2.1/2"	73	129
4047M75L	40L 2.1/2"	75	129
4048M76L	40L 2.1/2"	76	129
40M77L	40L 2.1/2"	77	129
40M80L	40L 2.1/2"	80	129
40M85L	40L 2.1/2"	85	129
4054M86L	40L 2.1/2"	86	129
40M90L	40L 2.1/2"	90	129
4060M95L	40L 2.1/2"	95	129
4063M100L	40L 2.1/2"	100	129
4066M105L	40L 2.1/2"	105	129
4069M110L	40L 2.1/2"	110	129
40M115L	40L 2.1/2"	115	129
40M120L	40L 2.1/2"	120	129
40M125L	40L 2.1/2"	125	129
4082M130L	40L 2.1/2"	130	129
40M135L	40L 2.1/2"	135	129
4088M140L	40L 2.1/2"	140	129
40M145L	40L 2.1/2"	145	129
4094M150L	40L 2.1/2"	150	129
40M155L	40L 2.1/2"	155	129
40M160L	40L 2.1/2"	160	129
40104M165L	40L 2.1/2"	165	129
40M170L	40L 2.1/2"	170	129
40110M175L	40L 2.1/2"	175	129
40M180L	40L 2.1/2"	180	129
40116M185L	40L 2.1/2"	185	129
40M190L	40L 2.1/2"	190	129
40122M195L	40L 2.1/2"	195	129
40125M200L	40L 2.1/2"	200	129
40132M210L	40L 2.1/2"	210	129
40M215L	40L 2.1/2"	215	129
40142M225L	40L 2.1/2"	225	129
40M230L	40L 2.1/2"	230	129
40M235L	40L 2.1/2"	235	129
4026M41L inch	40L 2.1/2"	1 5/8"	129
4027M43L inch	40L 2.1/2"	1 11/16"	129
4028L	40L 2.1/2"	1 3/4"	129
4029M46L inch	40L 2.1/2"	1 13/16"	129
4030L	40L 2.1/2"	1 7/8"	129
4031M49L inch	40L 2.1/2"	1 15/16"	129
4032M51L inch	40L 2.1/2"	2"	129
4033L	40L 2.1/2"	2 1/16"	129
4034M54L inch	40L 2.1/2"	2 1/8"	129
4035L	40L 2.1/2"	2 3/16"	129
4036M57L inch	40L 2.1/2"	2 1/4"	129
4037M59L inch	40L 2.1/2"	2 5/16"	129
4038L	40L 2.1/2"	2 3/8"	129
4039M62L inch	40L 2.1/2"	2 7/16"	129
4040L	40L 2.1/2"	2 1/2"	129
4041M65L inch	40L 2.1/2"	2 9/16"	130
4042M67L inch	40L 2.1/2"	2 5/8"	130
4043L	40L 2.1/2"	2 11/16"	130
4044M70L inch	40L 2.1/2"	2 3/4"	130
4045L	40L 2.1/2"	2 13/16"	130
4046M73L inch	40L 2.1/2"	2 7/8"	130
4047M75L inch	40L 2.1/2"	2 15/16"	130
4048M76L inch	40L 2.1/2"	3"	130
4049L	40L 2.1/2"	3 1/16"	130
4050L	40L 2.1/2"	3 1/8"	130
4051L	40L 2.1/2"	3 3/16"	130
4052L	40L 2.1/2"	3 1/4"	130
4053L	40L 2.1/2"	3 5/16"	130
4054M86L inch	40L 2.1/2"	3 3/8"	130
4055L	40L 2.1/2"	3 7/16"	130
4056L	40L 2.1/2"	3 1/2"	130
4057L	40L 2.1/2"	3 9/16"	130
4058L	40L 2.1/2"	3 5/8"	130
4059L	40L 2.1/2"	3 11/16"	130
4060M95L inch	40L 2.1/2"	3 3/4"	130
4061L	40L 2.1/2"	3 13/16"	130
4062L	40L 2.1/2"	3 7/8"	130
4063M100L inch	40L 2.1/2"	3 15/16"	130
4064L	40L 2.1/2"	4"	130
4065L	40L 2.1/2"	4 1/16"	130
4066M105L inch	40L 2.1/2"	4 1/8"	130
4067L	40L 2.1/2"	4 3/16"	130
4068L	40L 2.1/2"	4 1/4"	130
4069M110L inch	40L 2.1/2"	4 5/16"	130
4070L	40L 2.1/2"	4 3/8"	130
4071L	40L 2.1/2"	4 7/16"	130
4072L	40L 2.1/2"	4 1/2"	130
4074L	40L 2.1/2"	4 5/8"	130
4076L	40L 2.1/2"	4 3/4"	130
4078L	40L 2.1/2"	4 7/8"	130
4080L	40L 2.1/2"	5"	130
4082M130L inch	40L 2.1/2"	5 1/8"	130
4083L	40L 2.1/2"	5 3/16"	130
4084L	40L 2.1/2"	5 1/4"	130
4086L	40L 2.1/2"	5 3/8"	130
4088M140L inch	40L 2.1/2"	5 1/2"	130
4090L	40L 2.1/2"	5 5/8"	130
4092L	40L 2.1/2"	5 3/4"	130
4094M150L inch	40L 2.1/2"	5 7/8"	130
4096L	40L 2.1/2"	6"	130
4098L	40L 2.1/2"	6 1/8"	130
40100L	40L 2.1/2"	6 1/4"	130
40102L	40L 2.1/2"	6 3/8"	130
40104M165L inch	40L 2.1/2"	6 1/2"	130
40106L	40L 2.1/2"	6 5/8"	130
40108L	40L 2.1/2"	6 3/4"	130
40110M175L inch	40L 2.1/2"	6 7/8"	130
40112L	40L 2.1/2"	7"	130
40114L	40L 2.1/2"	7 1/8"	130
40116M185L inch	40L 2.1/2"	7 1/4"	130
40118L	40L 2.1/2"	7 3/8"	130
40120L	40L 2.1/2"	7 1/2"	130
40122M195L inch	40L 2.1/2"	7 5/8"	130
40124L	40L 2.1/2"	7 3/4"	130
40125M200L inch	40L 2.1/2"	7 13/16"	130
40126L	40L 2.1/2"	7 7/8"	130
40128L	40L 2.1/2"	8"	130
40130L	40L 2.1/2"	8 1/8"	130
40132M210L inch	40L 2.1/2"	8 1/4"	130
40134L	40L 2.1/2"	8 3/8"	130
40136L	40L 2.1/2"	8 1/2"	130
40140L	40L 2.1/2"	8 3/4"	130
40142M225L inch	40L 2.1/2"	8 7/8"	130
40144L	40L 2.1/2"	9"	130
40146L	40L 2.1/2"	9 1/8"	130
40148L	40L 2.1/2"	9 1/4"	130
A4024	A40 2.1/2"	2 1/2"	130
A4056	A40 2.1/2"	2 1/2"	130
AN4024	AN40 2.1/2"	2 1/2"	130
AN4040	AN40 2.1/2"	2 1/2"	130
AN5640	AN40 2.1/2"	3 1/2"	130
Z4005	Z40 2.1/2"	2 1/2"	130
Z4006	Z40 2.1/2"	2 1/2"	130
Z4008	Z40 2.1/2"	2 1/2"	130
Z4010	Z40 2.1/2"	2 1/2"	130
Z4015	Z40 2.1/2"	2 1/2"	130
Z4020	Z40 2.1/2"	2 1/2"	130
Z4026	Z40 2.1/2"	2 1/2"	130
P40127	PR40 2.1/2"	2,1/2"	130
P40150	PR40 2.1/2"	2,1/2"	130
P40175	PR40 2.1/2"	2,1/2"	130
R40127	PR40 2.1/2"	2,1/2"	130
R40150	PR40 2.1/2"	2,1/2"	130
R40175	PR40 2.1/2"	2,1/2"	130
U4040	U40 2.1/2"	2,1/2"	131
5663M100	56 3.1/2"	100	131
5666M105	57 3.1/2"	105	131
5669M110	58 3.1/2"	110	131
56M115	59 3.1/2"	115	131
56M120	60 3.1/2"	120	131
56M125	61 3.1/2"	125	131
5682M130	62 3.1/2"	130	131
56M135	63 3.1/2"	135	131
5688M140	64 3.1/2"	140	131
56M145	65 3.1/2"	145	131
5694M150	66 3.1/2"	150	131
56M155	67 3.1/2"	155	131
56M160	68 3.1/2"	160	131
56104M165	69 3.1/2"	165	131
56M170	70 3.1/2"	170	131
56110M175	71 3.1/2"	175	131
56M180	72 3.1/2"	180	131
56116M185	73 3.1/2"	185	131
56M190	74 3.1/2"	190	131
56122M195	75 3.1/2"	195	131
56125M200	76 3.1/2"	200	131
56132M210	77 3.1/2"	210	131
56M215	78 3.1/2"	215	131
56142M225	79 3.1/2"	225	131
56M230	80 3.1/2"	230	131
56M235	81 3.1/2"	235	131
5662	82 3.1/2"	3 7/8"	131
5663M100 inch	83 3.1/2"	3 15/16"	131
5664	84 3.1/2"	4"	131
5665	85 3.1/2"	4 1/16"	131
5666M105 inch	86 3.1/2"	4 1/8"	131
5667	87 3.1/2"	4 3/16"	131
5668	88 3.1/2"	4 1/4"	131
5669M110 inch	89 3.1/2"	4 5/16"	131
5670	90 3.1/2"	4 3/8"	131
5671	91 3.1/2"	4 7/16"	131
5672	92 3.1/2"	4 1/2"	131
5674	93 3.1/2"	4 5/8"	131
5676	94 3.1/2"	4 3/4"	131
5678	95 3.1/2"	4 7/8"	131
5680	96 3.1/2"	5"	131
5682M130 inch	97 3.1/2"	5 1/8"	131
5683	98 3.1/2"	5 3/16"	131
5684	99 3.1/2"	5 1/4"	131
5686	100 3.1/2"	5 3/8"	131
5688M140 inch	101 3.1/2"	5 1/2"	131
5690	102 3.1/2"	5 5/8"	131
5692	103 3.1/2"	5 3/4"	131
5694M150 inch	104 3.1/2"	5 7/8"	131
5696	105 3.1/2"	6"	131
5698	106 3.1/2"	6 1/8"	131
56100	107 3.1/2"	6 1/4"	131
56102	108 3.1/2"	6 3/8"	131
56104M165 inch	109 3.1/2"	6 1/2"	131
56106	110 3.1/2"	6 5/8"	131
56108	111 3.1/2"	6 3/4"	131
56110M175 inch	112 3.1/2"	6 7/8"	131
56112	113 3.1/2"	7"	131
56114	114 3.1/2"	7 1/8"	131
56116M185 inch	115 3.1/2"	7 1/4"	131
56118	116 3.1/2"	7 3/8"	131
56120	117 3.1/2"	7 1/2"	131
56122M195 inch	118 3.1/2"	7 5/8"	131
56124	119 3.1/2"	7 3/4"	131
56125M200 inch	120 3.1/2"	7 13/16"	131
56126	121 3.1/2"	7 7/8"	131
56128	122 3.1/2"	8"	131
56130	123 3.1/2"	8 1/8"	131
56132M210 inch	124 3.1/2"	8 1/4"	131
56134	125 3.1/2"	8 3/8"	131
56136	126 3.1/2"	8 1/2"	131
56156	127 3.1/2"	8 3/4"	131
56142M225 inch	128 3.1/2"	8 7/8"	131
56144	129 3.1/2"	9"	131
56146	130 3.1/2"	9 1/8"	131
56148	131 3.1/2"	9 1/4"	131
56164	132 3.1/2"	10 1/4"	131
5663M100L	56L 3.1/2"	100	131

5666M105L	56L 3.1/2"	105	131
5669M110L	56L 3.1/2"	110	131
56M115L	56L 3.1/2"	115	131
56M120L	56L 3.1/2"	120	131
56M125L	56L 3.1/2"	125	131
5682M130L	56L 3.1/2"	130	131
56M135L	56L 3.1/2"	135	131
5688M140L	56L 3.1/2"	140	131
56M145L	56L 3.1/2"	145	131
5694M150L	56L 3.1/2"	150	131
56M155L	56L 3.1/2"	155	131
56M160L	56L 3.1/2"	160	131
56104M165L	56L 3.1/2"	165	131
56M170L	56L 3.1/2"	170	131
56110M175L	56L 3.1/2"	175	131
56M180L	56L 3.1/2"	180	131
56116M185L	56L 3.1/2"	185	131
56M190L	56L 3.1/2"	190	131
56122M195L	56L 3.1/2"	195	131
56125M200L	56L 3.1/2"	200	131
56132M210L	56L 3.1/2"	210	131
56M215L	56L 3.1/2"	215	131
56142M225L	56L 3.1/2"	225	131
56M230L	56L 3.1/2"	230	131
56M235L	56L 3.1/2"	235	131
5662L	56L 3.1/2"	3 7/8"	131
5663M100L	56L 3.1/2"	3 15/16"	131
5664L	56L 3.1/2"	4"	131
5665L	56L 3.1/2"	4 1/16"	131
5666M105L	56L 3.1/2"	4 1/8"	131
5667L	56L 3.1/2"	4 3/16"	131
5668L	56L 3.1/2"	4 1/4"	131
5669M110L	56L 3.1/2"	4 5/16"	131
5670L	4 3/8"	4 3/8"	132
5671L	4 7/16"	4 7/16"	132
5672L	4 1/2"	4 1/2"	132
5674L	4 5/8"	4 5/8"	132
5676L	4 3/4"	4 3/4"	132
5678L	4 7/8"	4 7/8"	132
5680L	5"	5"	132
5682M130L	5 1/8"	5 1/8"	132
5683L	5 3/16"	5 3/16"	132
5684L	5 1/4"	5 1/4"	132
5686L	5 3/8"	5 3/8"	132
5688M140L	5 1/2"	5 1/2"	132
5690L	5 5/8"	5 5/8"	132
5692L	5 3/4"	5 3/4"	132
5694M150L	5 7/8"	5 7/8"	132
5696L	6"	6"	132
5698L	6 1/8"	6 1/8"	132
56100L	6 1/4"	6 1/4"	132
56102L	6 3/8"	6 3/8"	132
56104M165L	6 1/2"	6 1/2"	132
56106L	6 5/8"	6 5/8"	132
56108L	6 3/4"	6 3/4"	132
56110M175L	6 7/8"	6 7/8"	132
56112L	7"	7"	132
56114L	7 1/8"	7 1/8"	132
56116M185L	7 1/4"	7 1/4"	132
56118L	7 3/8"	7 3/8"	132
56120L	7 1/2"	7 1/2"	132
56122M195L	7 5/8"	7 5/8"	132
56124L	7 3/4"	7 3/4"	132
56125M200L	7 13/16"	7 13/16"	132
56126L	7 7/8"	7 7/8"	132
56128L	8"	8"	132
56130L	8 1/8"	8 1/8"	132
56132M210L	8 1/4"	8 1/4"	132
56134L	8 3/8"	8 3/8"	132
56136L	8 1/2"	8 1/2"	132
56140L	8 3/4"	8 3/4"	132
56142M225L	8 7/8"	8 7/8"	132
56144L	9"	9"	132
56146L	9 1/8"	9 1/8"	132
56148L	9 1/4"	9 1/4"	132
56164L	10 1/4"	10 1/4"	132
A5640	A56 3.1/2"	3 1/2"	132
Z5610	Z56 3.1/2"	4 1/2"	132
Z5620	Z56 3.1/2"	5 1/2"	132
Z5640	Z56 3.1/2"	6 1/2"	132
AN5640	AN56 3.1/2"	3 1/2"	132
AN5656	AN56 3.1/2"	3 1/2"	132
P56175	PR56 3.1/2"	3,1/2"	132
R56175	PR56 3.1/2"	3,1/2"	132
9512M19	95 5-spline	19	132
95M20	95 5-spline	20	132
95M21	95 5-spline	21	132
95M22	95 5-spline	22	132
95M23	95 5-spline	23	132
95M24	95 5-spline	24	132
95M25	95 5-spline	25	132
95M26	95 5-spline	26	132
9517M27	95 5-spline	27	132
95M28	95 5-spline	28	132
95M29	95 5-spline	29	132
9519M30	95 5-spline	30	132
95M31	95 5-spline	31	132
95M32	95 5-spline	32	132
95M33	95 5-spline	33	132
95M34	95 5-spline	34	132
9522M35	95 5-spline	35	132
95M36	95 5-spline	36	132
95M37	95 5-spline	37	132
9524M38	95 5-spline	38	132
95M39	95 5-spline	39	132
95M40	95 5-spline	40	132
9526M41	95 5-spline	41	132
95M42	95 5-spline	42	132
9527M43	95 5-spline	43	132
95M44	95 5-spline	44	132
95M45	95 5-spline	45	132
9529M46	95 5-spline	46	132
95M47	95 5-spline	47	133
95M48	95 5-spline	48	133
9531M49	95 5-spline	49	133
95M50	95 5-spline	50	133
9532M51	95 5-spline	51	133
95M52	95 5-spline	52	133
9534M54	95 5-spline	54	133
95M55	95 5-spline	55	133
95M56	95 5-spline	56	133
9536M57	95 5-spline	57	133
95M58	95 5-spline	58	133
9537M59	95 5-spline	59	133
95M60	95 5-spline	60	133
95M61	95 5-spline	61	133
9539M62	95 5-spline	62	133
9541M65	95 5-spline	65	133
9542M67	95 5-spline	67	133
9544M70	95 5-spline	70	133
9546M73	95 5-spline	73	133
9547M75	95 5-spline	75	133
9548M76	95 5-spline	76	133
95M77	95 5-spline	77	133
95M80	95 5-spline	80	133
9512M19 inch	95 5-spline	3/4"	133
9513	95 5-spline	13/16"	133
9514	95 5-spline	7/8"	133
9515	95 5-spline	15/16"	133
9516	95 5-spline	1"	133
9517M27 inch	95 5-spline	1 1/16"	133
9518	95 5-spline	1 1/8"	133
9519M30 inch	95 5-spline	1 3/16"	133
9520	95 5-spline	1 1/4"	133
9521	95 5-spline	1 5/16"	133
9522M35 inch	95 5-spline	1 3/8"	133
9523	95 5-spline	1 7/16"	133
9524M38 inch	95 5-spline	1 1/2"	133
9525	95 5-spline	1 9/16"	133
9526M41 inch	95 5-spline	1 5/8"	133
9527M43 inch	95 5-spline	1 11/16"	133
9528	95 5-spline	1 3/4"	133
9529M46 inch	95 5-spline	1 13/16"	133
9530	95 5-spline	1 7/8"	133
9531M49 inch	95 5-spline	1 15/16"	133
9532M51 inch	95 5-spline	2"	133
9533	95 5-spline	2 1/16"	133
9534M54 inch	95 5-spline	2 1/8"	133
9535	95 5-spline	2 3/16"	133
9536M57 inch	95 5-spline	2 1/4"	133
9537M59 inch	95 5-spline	2 5/16"	133
9538	95 5-spline	2 3/8"	133
9539M62 inch	95 5-spline	2 7/16"	133
9540	95 5-spline	2 1/2"	133
9541M65 inch	95 5-spline	2 9/16"	133
9542M67 inch	95 5-spline	2 5/8"	133
9543	95 5-spline	2 11/16"	133
9544M70 inch	95 5-spline	2 3/4"	133
9545	95 5-spline	2 13/16"	133
9546M73 inch	95 5-spline	2 7/8"	133
9547M75 inch	95 5-spline	2 15/16"	133
9548M76 inch	95 5-spline	3"	133
9549	95 5-spline	3 1/16"	133
9550	95 5-spline	3 1/8"	133
9512M19L	95L 5-spline	19	133
95M20L	95L 5-spline	20	133
95M21L	95L 5-spline	21	133
95M22L	95L 5-spline	22	133
95M23L	95L 5-spline	23	133
95M24L	95L 5-spline	24	133
95M25L	95L 5-spline	25	133
95M26L	95L 5-spline	26	133
9517M27L	95L 5-spline	27	133
95M28L	95L 5-spline	28	133
95M29L	95L 5-spline	29	133
9519M30L	95L 5-spline	30	133
95M31L	95L 5-spline	31	133
95M32L	95L 5-spline	32	133
95M33L	95L 5-spline	33	133
95M34L	95L 5-spline	34	133
9522M35L	95L 5-spline	35	133
95M36L	95L 5-spline	36	133
95M37L	95L 5-spline	37	133
9524M38L	95L 5-spline	38	133
95M39L	95L 5-spline	39	133
95M40L	95L 5-spline	40	133
9526M41L	95L 5-spline	41	133
95M42L	95L 5-spline	42	133
9527M43L	95L 5-spline	43	133
95M44L	95L 5-spline	44	133
95M45L	95L 5-spline	45	133
9529M46L	95L 5-spline	46	133
95M47L	95L 5-spline	47	133
95M48L	95L 5-spline	48	133
9531M49L	95L 5-spline	49	133
95M50L	95L 5-spline	50	133
9532M51L	95L 5-spline	51	133
95M52L	95L 5-spline	52	133
9534M54L	95L 5-spline	54	133
95M55L	95L 5-spline	55	133
95M56L	95L 5-spline	56	133
9536M57L	95L 5-spline	57	133
95M58L	95L 5-spline	58	133
9537M59L	95L 5-spline	59	133
95M60L	95L 5-spline	60	133
95M61L	95L 5-spline	61	133
9539M62L	95L 5-spline	62	133
9541M65L	95L 5-spline	65	133
9542M67L	95L 5-spline	67	133
9544M70L	95L 5-spline	70	133
9546M73L	95L 5-spline	73	133
9547M75L	95L 5-spline	75	133
9548M76L	95L 5-spline	76	133
95M77L	95L 5-spline	77	133
95M80L	95L 5-spline	80	133
9512M19L inch	95L 5-spline	3/4"	133
9513L	95L 5-spline	13/16"	133
9514L	95L 5-spline	7/8"	133
9515L	95L 5-spline	15/16"	133
9516L	95L 5-spline	1"	133
9517M27L inch	95L 5-spline	1 1/16"	133
9518L	95L 5-spline	1 1/8"	133
9519M30L inch	95L 5-spline	1 3/16"	133
9520L	95L 5-spline	1 1/4"	133
9521L	95L 5-spline	1 5/16"	133
9522M35L inch	95L 5-spline	1 3/8"	133
9523L	95L 5-spline	1 7/16"	133
9524M38L inch	95L 5-spline	1 1/2"	133
9525L	95L 5-spline	1 9/16"	133
9526M41L inch	95L 5-spline	1 5/8"	133
9527M43L inch	95L 5-spline	1 11/16"	133
9528L	95L 5-spline	1 3/4"	134
9529M46L inch	95L 5-spline	1 13/16"	134
9530L	95L 5-spline	1 7/8"	134
9531M49L inch	95L 5-spline	1 15/16"	134
9532M51L inch	95L 5-spline	2"	134
9533L	95L 5-spline	2 1/16"	134
9534M54L inch	95L 5-spline	2 1/8"	134
9535L	95L 5-spline	2 3/16"	134
9536M57L inch	95L 5-spline	2 1/4"	134
9537M59L inch	95L 5-spline	2 5/16"	134
9538L	95L 5-spline	2 3/8"	134
9539M62L inch	95L 5-spline	2 7/16"	134
9540L	95L 5-spline	2 1/2"	134
9541M65L inch	95L 5-spline	2 9/16"	134
9542M67L inch	95L 5-spline	2 5/8"	134
9543L	95L 5-spline	2 11/16"	134
9544M70L inch	95L 5-spline	2 3/4"	134
9545L	95L 5-spline	2 13/16"	134
9546M73L inch	95L 5-spline	2 7/8"	134
9547M75L inch	95L 5-spline	2 15/16"	134
9548M76L inch	95L 5-spline	3"	134
9549L	95L 5-spline	3 1/16"	134
9550L	95L 5-spline	3 1/8"	134
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A9524	A95 5-spline	5 Spline	134
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P9586	PR95 5-spline	5 Spline	134
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KM1	KM	3/8"	135
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KM5	KM	1/2"	135
KM6	KM	1/2"	135
KM7	KM	1/2"	135
KM8	KM	1/2"	135
KM9	KM	3/4"	135
KM10	KM	3/4"	135
KM11	KM	3/4"	135
KM12	KM	3/4"	135
KM13	KM	3/4"	135
KM14	KM	1"	135
KM15	KM	1"	135
KM16	KM	1"	135
KM17	KM	1"	135
KM18	KM	1"	135
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604880	402C2	4	139
623201	402C3	3	139
623202	402C4	4	139
624375	402C7	3	139
624376	402C8	3	139
608668	405/4G	160	139
608669	405/4G	180	139
608670	405/4G	200	139
607867	405/1BI	160	140
607868	405/1BI	180	140
607869	405/1BI	200	140
607870	406/1BI	160	140
607871	406/1BI	180	140
607872	406/1BI	200	140
608354	406/1BI	220	140
621854	406/1BIST	6	140
608673	406/4G	140	140
608674	406/4G	160	140
608675	406/4G	180	140
608676	406/4G	200	140
608677	406/4G	220	140
607873	420/1BI	180	140
607883	461/1BI	140	140
607884	461/1BI	160	140
621855	461/1BIST	6	141
608697	461/4G	140	141
608698	461/4G	160	141
612327	461/4P	125	141
617686	466/1BI	160	141
608850	466/1BI	180	141
608837	466/1BI	200	141
609192	455/1BI	160	141
617687	466/4G	160	141
608700	466/4G	180	141
609190	466/4G	200	141
608694	455/4G	160	141
626490	467SHARK/4DP	250	142
626500	469SHARK/4DP	250	142
618648	457/4AP	180	142
607874	506/1BI	140	142
607875	506/1BI	160	142
608712	506/4G	140	142
608713	506/4G	160	142
607876	508/1BI	170	143
607877	508/1BI	200	143
608710	508/4G	170	143
608711	508/4G	200	143
607966	512/1BI	170	143
607967	512/1BI	200	143
608720	512/4G	170	143
608721	512/4G	200	143
607878	472/1BI	140	143
607879	472/1BI	160	143
608704	472/4G	140	143
608705	472/4G	160	143
607880	476/1BI	140	144
607881	476/1BI	160	144
608708	476/4G	140	144
608709	476/4G	160	144
612782	514/1BI	160	144
624059	462/1BI	160	145
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607882	478/1BI	160	145
608701	478/4G	160	145
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601136	425/4A	1.5 - 6	146
601137	425/4B	1.5 - 6	146
605806	425/4AB	1.5 - 6	146
621550	427/4AG	433	146
621552	427/4CG	378	146
602327	428/4	0.5 - 6	147
602328	428.1/4	161	147
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621557	428/4AGPB	1315	147
621958	428.4/4AG	55	147
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621955	428.1/4AG	57	148
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616737	534/1P	300	149
621187	532PLUS/1DP	140	149
621188	532PLUS/1DP	140	149
621189	532PLUS/1DP	180	149
621190	532PLUS/1DP	220	149
621195	534PLUS/1DP	140	149
621196	534PLUS/1DP	140	149
621197	534PLUS/1DP	180	149
621198	534PLUS/1DP	220	149
621203	536PLUS/1DP	140	149
621204	536PLUS/1DP	140	149
621205	536PLUS/1DP	180	149
621206	536PLUS/1DP	220	149
616740	536/1P	300	150
616743	538/1P	300	150
616736	539/1PCT	4	150
621211	538PLUS/1DP	140	150
621212	538PLUS/1DP	140	150
621213	538PLUS/1DP	180	150
621214	538PLUS/1DP	220	150
621623	539PLUS/1DPCT	3 - 10 - 140 / 4	150
621624	539PLUS/1DPCT	10 - 25 - 140 / 4	150
621625	539PLUS/1DPCT	19 - 60 - 180 / 4	150
621626	539PLUS/1DPCT	40 - 100 - 220 / 4	150
601341	530/4	160	151
601342	530/4	180	151
601343	530/4	200	151
607860	530/4	225	151
601344	530/4	250	151
608722	530/4P	160	151
608723	530/4P	180	151
608724	530/4P	200	151
608725	530/4P	225	151
608726	530/4P	250	151
601336	530/4PR	160	151
601337	530/4PR	180	151
601338	530/4PR	200	151
605155	530/4PR	225	151
601339	530/4PR	250	151
601372	531/4	190	151
601373	531/4	224	151
601374	531/4	250	151
601375	531/4	280	151
608727	531/4P	190	151
608728	531/4P	224	151
608729	531/4P	250	151
608730	531/4P	280	151
601386	531/4PR	224	151
601387	531/4PR	250	151
601388	531/4PR	280	151
611975	515/1BI	160	152
613083	515/1BI	160	152
611976	515.1	4	152
613084	515.1	3	152
607494	529/4P	280	152
609563	529/4PR	280	152
612988	528/4BP	200	152
601557	558/5P	210	152
610148	527/4P	200	152
613101	429/3	175	153
605206	429/3	250	153
613102	429/3	300	153
601551	430/3	175	153
601552	430/3	250	153
601553	430/3	300	153
601142	432/3A	280	153
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615044	591L-PLUS/3DP	260	158
615036	567R-PLUS/7DP	290	158
613196	592R-PLUS/7DP	350	158
615037	563R/7PR	280	159
615042	572L/7PR	280	159
615038	563L/7PR	280	159
609332	565R/7P	250	159
615041	572R/7PR	280	159
609335	567R/7P	290	159
615035	592R/7PR	350	160
610945	568L/7P	250	160
609333	566R/7P	250	160
608771	561R/3G	260	160
609336	568R/7P	250	160
608774	571L/3G	260	160
609334	569R/7P	250	161
608776	591L/3G	260	161
608773	571R/3G	260	161
608772	562/3P	250	161
601569	562.1/9	250	161
608775	591R/3G	260	161
615158	573/7P	175	161
615159	573/7P	200	161
615160	573/7P	250	161
615161	573/7P	300	161
615162	573/7P	350	161
601127	582/3P	150	162
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609405	583/6	210	162
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609406	583.1/7	1.5"	162
603870	542.1/5	13	162
609238	580/1BI	170	162
609239	580/1BI	230	162
601578	542/4PR	220	162
601590	550/3PR	200	162
601585	550.1/9	50	162
601591	550.3/9	17	162
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605214	555.1/9	225	162
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620653	586.1/7	M8	165
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620655	586.1/7	M12	165
622705	586.2/4	31	165
623121	586.3/7	121	165
615226	585/6	550	165
616732	585/6	800	165
618620	585.1/7	550	165
618621	585.1/7	800	165
617672	585/6P	760	165
618622	585.1/7P	765	166
615256	596PLUS/6G	750	166
615257	596PLUS/6G	900	166
615258	596.1PLUS/7	750	166
615259	596.1PLUS/7	900	166
615260	596.2PLUS/7	750	166
615261	596.2PLUS/7	900	166
616521	596.3PLUS/7	750	166
616522	596.3PLUS/7	900	166
610963	596/6A	300	166
610964	596/6A	350	166
610965	596/6A	450	166
610966	596/6A	600	166
610967	596/6A	750	166
610968	596/6A	900	166
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610971	596.1/7A	450	166
610972	596.1/7A	600	166
610973	596.1/7A	750	166
610974	596.1/7A	900	166
613078	596.1/7A	1050	166
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615485	264	1/4"	173
615486	264	3/8"	173
615487	264	1/2"	173
615488	264	1/2"	173
615489	264	3/4"	173
615490	264	3/4"	173
615491	264	1"	173
12111	2AR 1/2"	1/2"	173
616801	265	3/4"	174
616802	265	3/4"	174
616803	265	3/4"	174
12012	5AR	3/4"	174
12012.01	5AR	1"	174
12100	6AR	1"	175
627784	266B	1/4"	175
627785	266B	1/2"	175
627575	266	1/4"	175
627576	266	1/2"	175
627577	266	1/2"	175
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TW150S	TWS (Super)	15 - 150	176
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11167	THP	17	178
11143	THP	18	178
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612131	710P	2m	181
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612134	710P	10m	181
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612790	710R	3m	181
612791	710R	5m	181
612792	710R	8m	181
612792	710R	2m	181
612794	710R	3m	181
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7110-1500	7110	1500 mm	183
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617704	1280	500 mm	183
617707	1280	1000 mm	183
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040E050	040E	500 mm	184
040E060	040E	600 mm	184
040E080	040E	800 mm	184
040E100	040E	1000 mm	184
040E120	040E	1200 mm	184
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040EM60	040EM	600 mm	184
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040EM100	040EM	1000 mm	184
040EM120	040EM	1200 mm	184
040EM150	040EM	1500 mm	184
040EM180	040EM	1800 mm	184
040EM200	040EM	2000 mm	184
04MT040	04MT	400 mm	184
04MT050	04MT	500 mm	184
04MT060	04MT	600 mm	184
04MT080	04MT	800 mm	184
04MT100	04MT	1000 mm	184
04NAM40	04NAM	400 mm	185
04NAM50	04NAM	500 mm	185
04NAM60	04NAM	600 mm	185
04NAM80	04NAM	800 mm	185
04NAM100	04NAM	1000 mm	185
04NA040	04NA	400 mm	185
04NA050	04NA	500 mm	185
04NA060	04NA	600 mm	185
04NA080	04NA	800 mm	185
04NA100	04NA	1000 mm	185
042AA40	042AA	400 mm	185
042AA50	042AA	500 mm	185
042AA60	042AA	600 mm	185
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610717	1250	400	186
610718	1250	500	186
610719	1250	600	186
610720	1250	800	186
610721	1250	1000	186
610722	1250	1200	186
610723	1250	1500	186
610724	1250	2000	186
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610727	1252	600	186
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617695	1263	350	187
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7247-200	7247	200 mm	190
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13004000	Gravurem-T	4	223
13005000	Gravurem-T	5	223
13006000	Gravurem-T	6	223
13008000	Gravurem-T	8	223
13010000	Gravurem-T	10	223
14002000	Gravurem-R	2	223
14003000	Gravurem-R	3	223
14004000	Gravurem-R	4	223
14005000	Gravurem-R	5	223
14006000	Gravurem-R	6	223
14008000	Gravurem-R	8	223
14010000	Gravurem-R	10	223
14302000	Gravurem-RP	2	223
14303000	Gravurem-RP	3	223
15,53	Gravurem-RP	4	223
14305000	Gravurem-RP	5	223
14306000	Gravurem-RP	6	223
14308000	Gravurem-RP	8	223
14310000	Gravurem-RP	10	223
11001000	Gravurem Nr. 1 extra-extra	1	223
11001500	Gravurem Nr. 1 extra-extra	1.5	223
11002000	Gravurem Nr. 1 extra-extra	2	223
11002500	Gravurem Nr. 1 extra-extra	2.5	223
11003000	Gravurem Nr. 1 extra-extra	3	223
11004000	Gravurem Nr. 1 extra-extra	4	223
11005000	Gravurem Nr. 1 extra-extra	5	223
11006000	Gravurem Nr. 1 extra-extra	6	223
11007000	Gravurem Nr. 1 extra-extra	7	223
11008000	Gravurem Nr. 1 extra-extra	8	223
11010000	Gravurem Nr. 1 extra-extra	10	223
11012000	Gravurem Nr. 1 extra-extra	12	223
11015000	Gravurem Nr. 1 extra-extra	15	223
11016000	Gravurem Nr. 1 extra-extra	16	223
12001000	Gravurem-Sonderklasse	1	223
12001500	Gravurem-Sonderklasse	1.5	223
12002000	Gravurem-Sonderklasse	2	223
12002500	Gravurem-Sonderklasse	2.5	223
12003000	Gravurem-Sonderklasse	3	223
12004000	Gravurem-Sonderklasse	4	223
12005000	Gravurem-Sonderklasse	5	224
12006000	Gravurem-Sonderklasse	6	224
12007000	Gravurem-Sonderklasse	7	224
12008000	Gravurem-Sonderklasse	8	224
12010000	Gravurem-Sonderklasse	10	224
12012000	Gravurem-Sonderklasse	12	224
12015000	Gravurem-Sonderklasse	15	224
12016000	Gravurem-Sonderklasse	16	224
12018000	Gravurem-Sonderklasse	18	224
12020000	Gravurem-Sonderklasse	20	224
7000100A	7000A	10	224
7000150A	7000A	15	224
7000200A	7000A	20	224
7000250A	7000A	25	224
7000400A	7000A	40	224
7000500A	7000A	50	224
7000600A	7000A	60	224
7000700A	7000A	70	224
7000800A	7000A	80	224
7000900A	7000A	90	224
7001000A	7000A	100	224
16501000	165 Euro Type	1	224
16501500	166 Euro Type	1.5	224
16502000	167 Euro Type	2	224
16502500	168 Euro Type	2.5	224
16503000	169 Euro Type	3	224
16504000	170 Euro Type	4	224
16505000	171 Euro Type	5	224
7000100Z	7000Z	10	224
7000150Z	7000Z	15	224
7000200Z	7000Z	20	224
7000250Z	7000Z	25	224
7000300Z	7000Z	30	224
7000350Z	7000Z	35	224
7000400Z	7000Z	40	224
7000500Z	7000Z	50	224
7000600Z	7000Z	60	224
7000700Z	7000Z	70	224
7000800Z	7000Z	80	224
7000900Z	7000Z	90	224
7001000Z	7000Z	100	224
7001200Z	7000Z	120	224
7001500Z	7000Z	150	224
7001800Z	7000Z	180	224
7002000Z	7000Z	200	224
7002500Z	7000Z	250	224
7003000Z	7000Z	300	224
7004000Z	7000Z	400	224
7005000Z	7000Z	500	224
7000100B	7000B	10	224
7000150B	7000B	15	224
7000200B	7000B	20	224
7000250B	7000B	25	224
7000300B	7000B	30	224
7000350B	7000B	35	224
7000400B	7000B	40	224
7000500B	7000B	50	224
7000600B	7000B	60	224
7000700B	7000B	70	224
7000800B	7000B	80	224
7000900B	7000B	90	224
7001000B	7000B	100	224
7001200B	7000B	120	224
7001500B	7000B	150	224
7001800B	7000B	180	224
7002000B	7000B	200	224
7002500B	7000B	250	224
7003000B	7000B	300	224
7004000B	7000B	400	224
7005000B	7000B	500	224

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Cod produs	Articol	Dimensiune	Pag.
619291	760HB	100	228
619292	760HB	150	228
612992	760HB	200	228
612993	760HB	250	228
612994	760HB	300	228
619295	760H1/2S	100	228
619296	760H1/2S	150	228
612995	760H1/2S	200	228
612996	760H1/2S	250	228
612997	760H1/2S	300	228
619299	760HS	100	228
619300	760HS	150	228
612998	760HS	200	228
612999	760HS	250	228
613001	760HS	300	228
0011350/ P001350BA	P/001	350	228
0012350/ P001350SF	P/001	350	228
0013350/ P001350FI	P/001	350	228
0011400/ P001400BA	P/001	400	228
0012400/ P001400SF	P/001	400	228
0013400/ P001400FI	P/001	400	228
619303	761HB	100	228
619304	761HB	150	228
613002	761HB	200	228
613003	761HB	250	228
613004	761HB	300	228
619307	761H1/2S	100	228
619308	761H1/2S	150	228
613005	761H1/2S	200	228
613006	761H1/2S	250	228
613007	761H1/2S	300	228
619311	761HS	100	229
619312	761HS	150	229
613008	761HS	200	229
613009	761HS	250	229
613010	761HS	300	229
0501350/MC-050350BA	MC/050	350	229
0502350/ MC050350SF	MC/050	350	229
0503350/ MC050350FI	MC/050	350	229
0501400/MC-050400BA	MC/050	400	229
0502400/ MC050400SF	MC/050	400	229
0503400/ MC050400FI	MC/050	400	229
619315	763HB	100	229
619316	763HB	150	229
613011	763HB	200	229
613012	763HB	250	229
613013	763HB	300	229

619319	763H1/2S	100	229
619320	763H1/2S	150	229
613014	763H1/2S	200	229
613015	763H1/2S	250	229
613016	763H1/2S	300	229
619323	763HS	100	229
619324	763HS	150	229
613017	763HS	200	229
613018	763HS	250	229
613019	763HS	300	229
0501350/MC-050350BA	R/060	350	229
0502350/MC050350SF	R/060	350	229
0503350/MC050350FI	R/060	350	229
0501400/MC-050400BA	R/060	400	229
0502400/MC050400SF	R/060	400	229
619327	764HB	100	230
619328	764HB	150	230
613020	764HB	200	230
613021	764HB	250	230
613022	764HB	300	230
619331	764H1/2S	100	230
619332	764H1/2S	150	230
613023	764H1/2S	200	230
613024	764H1/2S	250	230
613025	764H1/2S	300	230
619335	764HS	100	230
619336	764HS	150	230
613026	764HS	200	230
613027	764HS	250	230
613028	764HS	300	230
0401350/TQS-040350BA	TQS/040	350	230
0402350/TQS040350SF	TQS/040	350	230
0403350/TQS-040350FI	TQS/040	350	230
619339	765HB	100	230
619340	765HB	150	230
613029	765HB	200	230
613030	765HB	250	230
613031	765HB	300	230
619343	765H1/2S	100	230
619344	765H1/2S	150	230
613032	765H1/2S	200	230
613033	765H1/2S	250	230
613034	765H1/2S	300	230
619347	765HS	100	231
619348	765HS	150	231
613035	765HS	200	231
613036	765HS	250	231
613037	765HS	300	231
0451350/Q045350BA	Q/045	350	231
0452350/Q045350SF	Q/045	350	231
0453350/Q045350FI	Q/045	350	231
612930	762/5B	5 piese	231
619467	762/5B	5 piese	231
612929	762/5B	5 piese	231
619468	762/5 1/2S	5 piese	232
612931	762/5 1/2S	5 piese	232
619469	762/5S	5 piese	232
612934	762/5S	5 piese	232
612933	762/5S	5 piese	232
0701100/F070100BA	F/070	100	233
0702100/F070100SF	F/070	100	233
0703100/F070100FI	F/070	100	233
0701150/F070150BA	F/070	150	233
0702150/F070150SF	F/070	150	233
0703150/F070150FI	F/070	150	233
0701200/F070200BA	F/070	200	233
0702200/F070200SF	F/070	200	233
0703200/F070200FI	F/070	200	233
0701250/F070250BA	F/070	250	233
0702250/F070250SF	F/070	250	233
0703250/F070250FI	F/070	250	233
0701300/F070300BA	F/070	300	233
2970200/UP-297200SF	UP/297	200	233
2970250/UP-297250SF	UP/297	250	233
1001150/P2CX-100150BA	P2CX/100	150	233
1002150/P2CX-100150SF	P2CX/100	150	233
1003150/P2CX-100150FI	P2CX/100	150	233
1001200/P2CX-100200BA	P2CX/100	200	233
1002200/P2CX-100200SF	P2CX/100	200	233
1003200/P2CX-100200FI	P2CX/100	200	233
1001250/P2CX-100250BA	P2CX/100	250	233
1002250/P2CX-100250SF	P2CX/100	250	233
1003250/P2CX-100250FI	P2CX/100	250	233
1001300/P2CX-100300BA	P2CX/100	300	233
1002300/P2CX-100300SF	P2CX/100	300	233
1003300/P2CX-100300FI	P2CX/100	300	233
1011150/P1CR-101150BA	P1CR/101	150	233
1012150/P1CR101150SF	P1CR/101	150	233
1013150/P1CR101150FI	P1CR/101	150	233
1011200/P1CR-101200BA	P1CR/101	200	233
1012200/P1CR101200SF	P1CR/101	200	233
1013200/P1CR101200FI	P1CR/101	200	233
1011250/P1CR-101250BA	P1CR/101	250	233
1012250/P1CR101250SF	P1CR/101	250	233
1011300/P1CR-101300BA	P1CR/101	300	233
1012300/P1CR101300SF	P1CR/101	300	233
1013300/P1CR101300FI	P1CR/101	300	233
1021150/P2CR-102150BA	P2CR/102	150	233
1022150/P2CR102150SF	P2CR/102	150	233
1023150/P2CR102150FI	P2CR/102	150	233
1021200/P2CR-102200BA	P2CR/102	200	233
1022200/P2CR102200SF	P2CR/102	200	233
1023200/P2CR102200FI	P2CR/102	200	233
1021250/P2CR-102250BA	P2CR/102	250	233
1022250/P2CR10250SF	P2CR/102	250	233
1023250/P2CR102250FI	P2CR/102	250	233
1021300/P2CR-102300BA	P2CR/102	300	233
1022300/P2CR102300SF	P2CR/102	300	233
1023300/P2CR102300FI	P2CR/102	300	233
1932150/PPMS193150	PPMS/193	150	233
1703150/RMS618150	170-179	150	234
1723150/RMS6532150	170-179	150	234
1703200/RMS818200	170-179	200	234
1713200	170-179	200	234
1723200/RMS8532200	170-179	200	234
1733200	170-179	200	234
1753200/RMS8316200	170-179	200	234
1773200/RMS8732200	170-179	200	234
1793200/RMS814200	170-179	200	234
0190200/XMTM019200	XMTM/019	200	234
0190250/XMTM019250	XMTM/019	250	234
0190300/XMTM019300	XMTM/019	300	234
0160200/MC-MTM016200	MCMTM/016	200	234
0160250/MC-MTM016250	MCMTM/016	250	234
0160300/MC-MTM016300	MCMTM/016	300	234
0160350/MC-MTM016350	MCMTM/016	350	234
1131200	113	200	234
DNF2100/DNF100	DNF	100	234
DNH2100/DNH100	DNH	100	234
DND2100/DND100	DND	100	234
DNV2100/DNV100	DNV	100	234
DNR2100/DNR100	DNR	100	235
GDS 5/GDS5-100	GDS		235
4012160/CP401160	CP/401	160	235
4012180/CP401180	CP/401	180	235
4022160/CPCR402160	CPCR/402	160	235
4022180/CPCR402180	CPCR/402	180	235
4032160/CX403160	CX/403	160	235
4032180/CX403180	CX/403	180	235
4042160/CXCR404160	CXCR/404	160	235
4042180/CXCR404180	CXCR/404	180	235
4052160/CXCR405160	CXCR/405	160	235
4052180/CXCR405180	CXCR/406	180	235
4062160/CT406160	CT/406	160	235
4062180/CT406180	CT/406	180	235
4072160/CQ407160	CQ/407	160	235
4072180/CQ407180	CQ/407	180	235
4082160/CR408160	CR/408	160	236
4082180/CR408180	CR/408	180	236
4092160/CF409160	CF/409	160	236
4092180/CF409180	CF/409	180	236
4102160/CLP410160	CLP/410	160	236
4102180/CLP410180	CLP/410	180	236
4122160/CB412160	CB/412	160	236
4122180/CB412180	CB/412	180	236
4142160/CFET414160	CFET/414	160	236
4142180/CFET414180	CFET/414	180	236
4152160/CJ6415160	CJ6415160	6 piese	236
4152180/CJ6415180	CJ6415180	6 piese	236
4002160/CJ12400160	CJ12400160	12 piese	236
4002180/CJ12400180	CJ12400180	12 piese	236
6631300	6631300	250	236
6651300	6651300	275	236
623365	766H	115	237
623366	766H1.2		237
623367	766H1.3		237
623368	766H1.4		237
623369	766H1.5		237
623370	766H2.1		237
623371	766H2.2		237
623373	766H2.4		237
623374	766H2.5		237
967060	096	60	237
967080	096	80	237
967090	096	90	237
967100	096	100	237
967110	096	110	237
967120	096	120	237
967130	096	130	237
967140	096	140	237
967150	096	150	237
967160	096	160	237
970981	097	4.0 Ø	237
970983	097	5.4 Ø	237
970984	097	6.5 Ø	237
970985	097	7.7 Ø	237
970988	097	9.3 Ø	237
970989	097	10.6 Ø	237
619773	767H1/2S	150	238
613038	767H1/2S	200	238
613039	767H1/2S	250	238
613040	767H1/2S	300	238
619775	768H1/2S	150	238
613041	768H1/2S	200	238
613042	768H1/2S	250	238
613043	768H1/2S	300	238
6597250	659	UNF-UNC-SAE	238
612228	777/6A	200	238
612233	777/6C	150	238
612234	777/6C	200	238
612235	777/6C	250	238
6587250	658	GAS (GBS)	238

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621564	721/6	80	243
621481	721/6	125	243
621567	721/6	150	243
621570	721/6	200	243
621566	721.1/6	80	243
621483	721.1/6	125	243
621569	721.1/6	150	243
621572	721.1/6	200	243
621482	721Q/6	125	243
621568	721Q/6	150	243
623083	722.1/7	80	243
619020	722.1/7	125	243
619021	722.1/7	150	243
619023	722.1/7	200	243
623084	722.1AL	80	243
619026	722.1AL	125	243
619027	722.1AL	150	243
619029	722.1AL	200	243
M16-80	7722SQ	80	244

M16-100	7722SQ	100	244
M16-125	7722SQ	125	244
M16-150	7722SQ	150	244
M16-200	7722SQ	200	244
M16-250	7722SQ	250	244
900508	7722.1	80	244
900509	7722.1	100	244
900510	7722.1	125	244
900511	7722.1	150	244
900512	7722.1	200	244
900503	7722	80	244
900504	7722	100	244
900505	7722	125	244
900506	7722	150	244
900507	7722	200	244
608433	702/2MH	120	244
608434	702/2MH	160	244
608435	702/2MH	200	244
608436	702/2MH	250	244
608360	702/2MH	300	244
608437	702/2MH	400	244
608438	702/2MH	500	244
608439	702/2MH	600	244
608441	702/2MH	1000	244
601783	702/2WH	120	245
601784	702/2WH	160	245
601785	702/2WH	200	245
601786	702/2WH	250	245
601787	702/2WH	300	245
601788	702/2WH	400	245
601789	702/2WH	500	245
601790	702/2WH	600	245
601792	702/2WH	1000	245
609961	704/2	160	245
609962	704/2	200	245
609963	704/2	250	245
609964	704/2	300	245
609965	704/2	400	245
609966	704/2	500	245
609974	705/2MH	160	245
609968	705/2MH	200	245
609982	705/2MH	250	245
609969	705/2MH	300	245
609970	705/2MH	400	245
609971	705/2MH	500	245
609975	705/2MH	600	245
609984	705/2MH	1000	245
30-200	30	200x110	245

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Cod produs	Articol	Dimensiune	Pag.
612236	755	610	248
609407	755	762	248
609408	755	914	248
5254533000	22 5254	530	248
5254610000	23 5254	610	248
5254760000	24 5254	760	248
5254800000	25 5254	800	248
5254914000	26 5254	914	248
5251000000	22 5251	500	248
612237	755.1	610	248
609409	755.1	762	248
609410	755.1	914	248
5244153300	22 5244.1	533	248
5244161000	22 5244.1	610	248
5244176000	22 5244.1	760	248
5244180000	22 5244.1	800	248
5244190000	22 5244.1	900	248
5244191400	22 5244.1	914	248
5244110000	22 5244.1	1000	248
5244253300	22 5244.2	533	248
5244261000	22 5244.2	610	248
5244276000	22 5244.2	760	248
5244280000	22 5244.2	800	248
5244290000	22 5244.2	900	248
5244291400	22 5244.2	914	248
5249150000	22 5249.1	500	248
5263000000	22 5263	300	248
5267000000	22 5267	300	248
5265000000	22 5265	300	248
5260300000	22 5260	300	249
5261300000	22 5261	300	249
5262300000	22 5262.15	300	249
5264000000	22 5264	165	249
5296000000	22 5296	300	249
5298000000	22 5298	330	249
609424	752	330	249
5297000000	22 5297.1	300	249
5299000000	22 5299	300	249
5286140000	22 5286.01A	400	249
5286145000	23 5286.01A	450	249
5286150000	24 5286.01A	500	249
609423	757	400	250
5825250000	22 5285A	250	250
5285315000	23 5285A	315	250
5286130000	22 5286.1A	300	250
5291250000	22 5291.1A	250	250
5291315000	23 5291.1A	315	250
5292000000	22 5292	250 , 315 , 315	250
5284000000	22 5284	300	250
5283000000	22 5283	300	250
3160530000	31 6053	250	250
27-300653819	27-300653819	19	250
28-300653819	28-300653819	19	250
5286240000	22 5286.B	400	251
5286250000	22 5286.B	500	251
5281000000	22 5281	250	251
5280000000	22 5280	250	251
5282000000	22 5282	250	251
5269000000	22 5269	120	251
490002	490002	250	251
490003	490003	50	251
5270800000	22 5270	800	251
5271800000	22 5271	800	251
5272800000	23 5272	800	251
5273800000	23 5273	800	251
612164	753P	150	252
612163	753W	150	252
305100	305100	290	252
306125	306125	240	252
308150	308150	260	252
150100	150100	260	252
601890	750	407	252
621531	750B	400	252
2956000000	22 2956	300	252
2957000000	22 2957	300	252
MP-01	MP-01	300	252
HH-01	HH-01	300	253
5257000000	22 5257	450	253
5256000000	22 5256	450	253
5287114500	22 5287	11	253
5287224500	22 5287	21	253
5289176300	22 5289	17	253
5289346300	22 5289	34	253
5288630000	22 5288	34	253
5290600000	22 5290	78	253
5293040000	22 5293	400	253
5293045000	22 5293	450	253
5293050000	22 5293	500	253

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Cod produs	Articol	Dimensiune	Pag.
611680	600TBI	1.0 x 5.5	257
611681	600TBI	1.2 x 6.5	257
611682	600TBI	1.2 x 8.0	257
611683	600TBI	1.6 x 10.0	257
612797	602TBI	0.4 x 2.5	257
612798	602TBI	0.4 x 2.5	257
611684	602TBI	0.5 x 3.0	257
612799	602TBI	0.5 x 3.0	257
612800	602TBI	0.6 x 3.5	257
612801	602TBI	0.8 x 4.0	257
611685	602TBI	0.8 x 4.0	257
612802	602TBI	0.8 x 4.0	257
612803	602TBI	0.8 x 4.0	257
612804	602TBI	1.0 x 5.5	257
611686	602TBI	1.0 x 5.5	257
616843	602TBI	1.0 x 5.5	257
612805	602TBI	1.2 x 6.5	257
616844	602TBI	1.2 x 6.5	257
612806	602TBI	1.2 x 8.0	257
612810	605TBI	0.4 x 2.5	258
611687	605TBI	0.4 x 2.5	258
611688	605TBI	0.5 x 3.0	258
612811	605TBI	0.5 x 3.0	258
611689	605TBI	0.5 x 3.0	258
612812	605TBI	0.5 x 3.0	258
612813	605TBI	0.6 x 3.5	258
611690	605TBI	0.6 x 3.5	258
611691	605TBI	0.6 x 3.5	258
611692	605TBI	0.8 x 4.0	258
612814	605TBI	0.8 x 4.0	258
611693	605TBI	0.8 x 4.0	258
612815	605TBI	0.8 x 4.0	258
612816	605TBI	1.0 x 5.5	258
611694	605TBI	1.0 x 5.5	258
611695	605TBI	1.0 x 5.5	258
612817	605TBI	1.2 x 6.5	258
612818	605TBI	1.2 x 6.5	258
611696	605TBI	1.2 x 6.5	258
611697	605TBI	1.2 x 6.5	258
611698	605TBI	1.2 x 6.5	258
612819	605TBI	1.6 x 8.0	258
611699	605TBI	1.6 x 10.0	258
611700	605TBI	2.0 x 12.0	258
616322	600CR	1.0 x 5.5	258
616323	600CR	1.2 x 6.5	258
616324	600CR	1.2 x 8.0	258
616325	600CR	1.6 x 10.0	258
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616339	605CR	0.4 x 2.5	258
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616341	605CR	0.5 x 3.0	258
616342	605CR	0.5 x 3.0	258
616343	605CR	0.6 x 3.5	258
616344	605CR	0.6 x 3.5	258
616345	605CR	0.6 x 3.5	258
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616347	605CR	0.8 x 4.0	258
616348	605CR	0.8 x 4.0	258
616349	605CR	0.8 x 4.0	258
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616351	605CR	1.0 x 5.5	258
616352	605CR	1.0 x 5.5	258
616353	605CR	1.2 x 6.5	258
616354	605CR	1.2 x 6.5	258
616355	605CR	1.2 x 6.5	258
616356	605CR	1.2 x 8.0	258
616357	605CR	1.6 x 8.0	258
616358	605CR	1.6 x 10.0	258
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616427	605NI	1.6 x 10.0	258
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611707	615TBI	PH 3	259
611708	615TBI	PH 4	259
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616367	615CR	PH 2	259
616368	615CR	PH 3	259
616369	615CR	PH 4	259
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616401	627CR	1.2 x 6.5	259
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617095	628TBI	PH 2	261
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616403	628CR	PZ 2	261
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611719	620TBI	5	261
611720	620TBI	6	261
611721	620TBI	8	261
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617129	620/1CR	2.5	261
617130	620/1CR	3	261
617133	620/1CR	6	261
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611723	621TBI	TX 7	262
611724	621TBI	TX 8	262
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616381	621CR	TX 8	262
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616385	621CR	TX 20	262
616386	621CR	TX 25	262
616387	621CR	TX 27	262
616388	621CR	TX 30	262
616389	621CR	TX 40	262
611734	621/1TBI	TR 10	262
611735	621/1TBI	TR 15	262
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611737	621/1TBI	TR 27	262
611738	621/1TBI	TR 25	262
611739	621/1TBI	TR 30	262

611740	621/1TBI	TR 40	262
611746	629TBI	5	262
612672	629TBI	5.5	262
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611748	629TBI	7	262
611749	629TBI	8	262
611750	629TBI	9	262
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611752	629TBI	11	262
611753	629TBI	12	262
611754	629TBI	13	262
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616414	629CR	13	262
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616418	629CR	17	262
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616320	606CS5TBI	5	263
617033	606B5NI	5	263
617017	606CS5CR	5	263
617021	607B5CR	5	263
617037	607B5NI	5	263
611985	607CS5TBI	5	263
611986	607CS7TBI	7	263
617028	608CS5CR	5	263
617041	608CS5NI	5	263
612326	608CS5TBI	5	263
617026	607CS7CR	7	263
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621419	607PB9TBI	9	264
623914	607SN1	84	264
623915	607SN2	162	264
612000	607S50TBI	50	264
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617030	609CS7CR	7	265
612300	621CS7TBI	TX 10-TX 40 / 7	265
617031	621CS7CR	TX 10 - TX 40 / 7	265
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UUSG0012343	INDUSTRY PH	PH 3	268
UUSG0012045	INDUSTRY PH	PH 4	268
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70112425	6463C6,3	PH 2	268
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70118305	76466C6,3	PZ 2	272
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02536		PZ 2	272
02537		PZ 3	272
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013071	1300 CR	PZ 1	273
013072	1300 CR	PZ 2	273
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02503		PZ 1	273
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70101010	76460C6,3	SL 5.5	275
70101110	76460C6,3	SL 6.5	275
70100925	76460C6,3	SL 4.5	275
70101025	76460C6,3	SL 5.5	275
70101125	76460C6,3	SL 6.5	275
602370	6460C6,3	0.5 x 3.0	276
602371	6460C6,3	0.5 x 4.0	276
602372	6460C6,3	0.6 x 3.5	276
602373	6460C6,3	0.6 x 4.5	276
602374	6460C6,3	0.8 x 4.0	276
602375	6460C6,3	0.8 x 5.5	276
602376	6460C6,3	1.0 x 5.5	276
602377	6460C6,3	1.2 x 6.5	276
602378	6460C6,3	1.2 x 8.0	276
011072	1100 CR	0,6 x 3,5	276
011074	1100 CR	0,6 x 4,5	276
011076	1100 CR	1,0 x 5,5	276
011077	1100 CR	1,2 x 6,5	276
60274		0,6 x 3,5	276
60275		0,5 x 4,0	276
60276		0,6 x 4,5	276
60277		0,8 x 5,5	276
60278		1,0 x 5,5	276
60279		1,2 x 6,5	276
01000		0,6 x 3,5	276
01509		0,5 x 4,0	276
01001		0,6 x 4,5	276
01002		0,8 x 5,5	276
01003		1,0 x 5,5	276
01004		1,2 x 6,5	276

UUSE0112000	INDUSTRY SL	0,5 x 3,0	276
UUSE0112001	INDUSTRY SL	0,5 x 4,0	276
UUSE0112002	INDUSTRY SL	0,6 x 3,5	276
UUSE0112303	INDUSTRY SL	0,6 x 4,5	276
UUSE0112004	INDUSTRY SL	0,8 x 4,5	276
UUSE0112305	INDUSTRY SL	0,8 x 5,5	276
UUSE0112307	INDUSTRY SL	1,2 x 6,5	276
UUSE0112008	INDUSTRY SL	1,2 x 8,0	276
UUSE0112009	INDUSTRY SL	1,6 x 8,0	276
UUSE0112306	INDUSTRY SL	1,0 x 5,5	276
UUSG0212303	ISOTIN® SL	0,6 x 4,5	276
UUSG0212305	ISOTIN® SL	0,8 x 5,5	276
UUSG0212306	ISOTIN® SL	1,0 x 5,5	276
UUSG0212307	ISOTIN® SL	1,2 x 6,5	276
UUSE0032303	DIATIN® SL	0,6 x 4,5	276
UUSE0032305	DIATIN® SL	0,8 x 5,5	276
UUSE0032306	DIATIN® SL	1,0 x 5,5	276
UUSE0032307	DIATIN® SL	1,2 x 6,5	276
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UUSE0062002N	STAINLESS STEEL SL	0,8 x 5,0	276
UUSE0612005N	STAINLESS STEEL SL	0,8 x 5,5	276
UUSE0612007N	STAINLESS STEEL SL	1,2 x 6,5	276
60490		0,5 x 3,0	276
60492		0,6 x 3,5	276
60494		0,8 x 4,0	276
60496		1,0 x 5,5	276
60498		1,2 x 6,5	276
01018		0,5 x 3,0	276
01021		0,6 x 3,5	276
01026		0,8 x 4,0	276
01031		1,0 x 5,5	276
01036		1,2 x 6,5	276
UUSE0113603	INDUSTRY SL L	0,6 x 4,5	276
UUSE0113605	INDUSTRY SL L	0,8 x 5,5	276
UUSE0113606	INDUSTRY SL L	1,0 x 5,5	276
UUSE0113607	INDUSTRY SL L	1,2 x 6,5	276
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602415	6480C8	1.2 x 6.5	277
602416	6480C8	1.2 x 8.0	277
602417	6480C8	1.6 x 8.0	277
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602419	6480C8	2.0 x 12.0	277
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UUSE0112515	QUALITY INDUSTRY SL	1,0 x 5,5	277
UUSE0112516	QUALITY INDUSTRY SL	1,2 x 6,5	277
UUSE0112517	QUALITY INDUSTRY SL	1,2 x 8,0	277
UUSE0112518	QUALITY INDUSTRY SL	1,6 x 8,0	277
UUSE0112519	QUALITY INDUSTRY SL	1,6 x 10,0	277
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621283	6472C6,3	TX 27	277
621284	6472C6,3	TX 30	277
621285	6472C6,3	TX 40	277
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70128901	76472C6,3	TX 40	277
70129101	76472C6,3	TX 50	277
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900527	76472C6,3	TX 40	277
900528	76472C6,3	TX 50	277
70128305	76472C6,3	TX 10	277
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60331		XZN M 5	284
60332		XZN M 6	284
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60517		PH 2	285
60518		PH 1	285
60519		PH 2	285
60520		PZ 1	285
60521		PZ 2	285
60522		PZ 1	285
60523		PZ 2	285
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66141501530	6614	TX 15	285
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66141502730	6614	TX 27	285
66141503030	6614	TX 30	285
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66151504075	6615	TX 40	285
66151504575	6615	TX 45	285
66151505075	6615	TX 50	285
66151505575	6615	TX 55	285
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66241500630	6624	6	285
66241500730	6624	7	285
66241500830	6624	8	285
66241500930	6624	9	285
66241501030	6624	10	285
66241501230	6624	12	285
66241501330	6624	13	285
66241501430	6624	14	285
66241501630	6624	16	285
66241500475	6624	4	285
66241500575	6624	5	285
66241500675	6624	6	285
66241500775	6624	7	285
66241500875	6624	8	285
66241500975	6624	9	285
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66241501475	6624	14	285
66241501675	6624	16	285
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66161500530	6616	SW 5,0	286
66161500630	6616	SW 6,0	286
66161500730	6616	SW 7,0	286
66161500830	6616	SW 8,0	286
66161501030	6616	SW 10,0	286
66161501230	6616	SW 12,0	286
66161501430	6616	SW 14,0	286
66161500475	6616	SW 4,0	286
66161500575	6616	SW 5,0	286
66161500675	6616	SW 6,0	286
66161500775	6616	SW 7,0	286
66161500875	6616	SW 8,0	286
66161501075	6616	SW 10,0	286
66161501275	6616	SW 12,0	286
66161501475	6616	SW 14,0	286
66171500430	6617	SW 4,0	286
66171500530	6617	SW 5,0	286
66171500630	6617	SW 6,0	286
66171500730	6617	SW 7,0	286
66171500830	6617	SW 8,0	286
66171501030	6617	SW 10,0	286
66171501230	6617	SW 12,0	286
66171500475	6617	SW 4,0	286
66171500575	6617	SW 5,0	286
66171500675	6617	SW 6,0	286
66171500775	6617	SW 7,0	286
66171500875	6617	SW 8,0	286
66171501075	6617	SW 10,0	286
66171501275	6617	SW 12,0	286
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701406	7014S	8	286
701433	7014S	10	286
701416	7014S	13	286
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66201500830	6620	M 8	286
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66201501230	6620	M 12	286
66201501430	6620	M 14	286
66201500575	6620	M 5	286
66201500675	6620	M 6	286
66201500875	6620	M 8	286
66201501075	6620	M 10	286
66201501275	6620	M 12	286
66201501475	6620	M 14	286
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618701	188.10A	10	286
618702	188.10A	13	286
618703	188.10A	17	286
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701430	7014S	8	286
701432	7014S	10	286
701439	7014S	13	286
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60603		11	286
60604		12	286
60605		13	286
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60608		3/8"	286
60609		5/16"	286
60610		7/16"	286
02116		5.5	286
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01434		11	286
01436		12	286
01438		13	286
02822		17	286
01440		1/4"	286
01444		3/8"	286
01442		5/16"	286
01446		7/16"	286
10030		6	286
10031		7	286
10032		8	286
10033		10	286
10034		11	286
10035		12	286
10036		13	286
10037		1/4"	286
10038		3/8"	286
10039		5/16"	286
02827		6	286
02828		7	286
02829		8	286
02830		10	286
02831		11	286
02832		12	286
02833		13	286
02834		1/4"	286
02835		3/8"	286
02836		5/16"	286
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UUSA0010052	BITHOLDER	9,6	287
UUSZ0010105	BITHOLDER	9,6	287
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02079		1/4"	287
60588		1/4"	287
60590		1/4"	287
60591		1/4"	287
01491		1/4"	287
01490		1/4"	287
01508		1/4"	287
02261		1/4"	287
02818		1/4"	287
02655		1/4"	287
02820		1/4"	287
02657		1/4"	287
02371		1/4"	287
02373		1/4"	287
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UUSA0010256	BITHOLDER	11,1	288
UUSA0010060	BITHOLDER	9,6	288
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UUSA0010498	FOX II	-	288
UUSA0015018	SPACER	-	288
UUSA0011150	SHORTY	9,6	288
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616809		1/4" - 1/2"	288
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02475		1/4" - 3/8"	288
02476		1/4" - 1/2"	288
60564		1/4" - 1/4"	288
60565		1/4" - 3/8"	288
60566		1/4" - 1/2"	288
02815		1/4" - 1/4"	288
02816		1/4" - 3/8"	288
02817		1/4" - 1/2"	288
60570		1/4" - 1/4"	288
60571		3/8" - 1/4"	288
60572		3/8" - 5/16"	288
60573		1/2" - 1/4"	288
60574		1/4" - 1/4"	289
60575		1/4" - 5/16"	289
60576		3/8" - 1/4"	289
60577		3/8" - 5/16"	289
60578		1/2" - 1/4"	289
60579		1/2" - 5/16"	289
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66451501210	6645	3/8" - 10 mm	289
66451503810	6645	1/2" - 10 mm	289
605063	6762.2	1/2" - 5/16"	289
605062	6762.1	1/2"	289
U42020-192-267	ALL-IN-ONE	8 piese	289
U0014010	U0014010	130	289

U0014015	U0014015	270	289
U0014012	U0014012	270	289
U0014030	U0014030	190	289
625355	188.1/1BBI	6,3	289
605061	6762	14 piese	290
624050	6778FBS1	11 piese	290
624051	6778FBS2	11 piese	290
624052	6778FBS3	11 piese	290
621650	6776PB21	21 piese	290
701791	701791	4 piese	290
701663	701663	31 piese	290
701507	701507	100 piese	290
019017	KL-32 Allround	32 piese	291
019026	KL-60 Allround	60 piese	291
070801	KL-34 701	34 piese	291
019028	WT-12 Wood	12 piese	291
060801	KL-6 620	6 piese	291
019050	TP-34 Allround	34 piese	292
038136	038136	10 piese	292
995000	Aktion 32	32 piese	292
038137	038137	10 piese	292
037215	CaBo-28-5-00	28 piese	292
019029	KL-31 Security	31 piese	292
029593	161181-020970-ZrN	10 piese	292
037214	CaBo-15-5-00	14 piese	292
037209	TB-12-5-06	12 piese	293
U0006000	U0006000	7 piese	293
U0006020	U0006020	7 piese	293
037211	TB-12-2-06	12 piese	293
U0006040	U0006040	7 piese	293
U0007000	U0007000	12 piese	293
037210	TB-12-1-06	12 piese	293
U0007020	U0007020	12 piese	293
U0006908	U0006908	31 piese	293
U0004920	U0004920	80 piese	294
02075	02075	32 piese	294
U0004320	U0004320	45 piese	294
02222	02222	50 piese	294
05000	05000	7 piese	294
05003	05003	7 piese	294
05002	05002	7 piese	294
05005	05005	7 piese	295
05018	05018	10 piese	295
05019	05019	10 piese	295
05020	05020	10 piese	295
02229	02229	18 piese	295
02611	02611	22 piese	295
02525	02525	23 piese	295
02009	02009	24 piese	295

Capitol 12

Cod produs	Articol	Dimensiune	Pag.
120K	120K	0,5-10,0	298
121K	121K	1,5-13,0	298
122K	122K	1,5-13,0	298
123K	123K		298
F3513A	F3513A	1,5-13,0	298
20UNF	20UNF	SDS-plus - 1/2"-UNF	298
73513A	73513A	1,5-13,0	298
124K	124K	1,5-13,0	298
J0106-B12	DRDM	0,5-6,0 mm	298
J0108-B12	DRDM	0,0-8,0 mm	298
J0110-B12	DRDM	1,0-10,0 mm	298
J0113-B12	DRDM	1,0-13,0 mm	298
J0113-B16	DRDM	1,0-13,0 mm	298
J0116-B18	DRDM	3,0-16,0 mm	298
J0120-B22	DRDM	5,0-20,0 mm	298
J2110-B12	DRDH	1,0-10,0 mm	298
J2113-B16	DRDH	1,0-13,0 mm	298
J2116-B18	DRDH	3,0-16,0 mm	298
J2120-B22	DRDH	5,0-20,0 mm	298
143B	143B - 172B - 177B	compatibil SDS-plus / 1/2"	298
172B	143B - 172B - 177B	compatibil SDS-plus&SPIT / 1/2"	298
177B	143B - 172B - 177B	compatibil SDS-max / 1/2"	298
138B	138B	compatibil SDS-plus / coada SDS-max	299
02210	02210	1/4"	299
XT60632000794	XT60632000794		299
XT70017621300	XT70017621300	145 mm	299
XT70017621390	XT70017621390	135 mm	299
1111177400B	DRILL DOCTOR 400	2,5-13 mm / unghi la varf 118°	300
1111177500M	DRILL DOCTOR 500	2,5-13 mm / unghi la varf 118°-135°	300
1111177750M	DRILL DOCTOR 750	2,5-19 mm / unghi la varf 118°-135°	300
11111720001	11111720001	Gr. 180	300
11111720004	11111720004	Gr. 100	300
11111720002	11111720002	2,5-19 mm	300
MT1*1	CSAY	MT1xMT1	301
MT1*2	CSAY	MT1xMT2	301
MT1*3	CSAY	MT1xMT3	301
MT2*3	CSAY	MT2xMT3	301
MT2*4	CSAY	MT2xMT4	301
MT3*4	CSAY	MT3xMT4	301
MT3*5	CSAY	MT3xMT5	301
MT4*5	CSAY	MT4xMT5	301
MT2*1	CSAX	MT2-MT1	301
MT3*1	CSAX	MT3-MT1	301
MT3*2	CSAX	MT3-MT2	301
MT4*2	CSAX	MT4-MT2	301
MT4*3	CSAX	MT4-MT3	301
MT5*2	CSAX	MT5-MT2	301
MT5*3	CSAX	MT5-MT3	301
MT1-B12	CSBD	MT1-B12	301
MT1-B16	CSBD	MT1-B16	301
MT2-B12	CSBD	MT2-B12	301
MT2-B16	CSBD	MT2-B16	301
MT2-B18	CSBD	MT2-B18	301
MT3-B12	CSBD	MT3-B12	301
MT3-B16	CSBD	MT3-B16	301
MT3-B18	CSBD	MT3-B18	301
MT3-B22	CSBD	MT3-B22	301
MT4-B16	CSBD	MT4-B16	301
MT4-B18	CSBD	MT4-B18	301
MT4-B22	CSBD	MT4-B22	301
K11160	K11 160	130x142x40x95x65x5 mm	301

Capitol 13

Cod produs	Articol	Dimensiune	Pag.
11000100030	1100		304
11000100040	1100		304
11000100050	1100		304
11000100060	1100		304
11000100070	1100		304
11000100080	1100		304
11000100090	1100		304
11000100100	1100		304
11000100110	1100		304
11000100120	1100		304
11000100125	1100		304
11000100130	1100		304
11000100140	1100		304
11000100150	1100		304
11000100160	1100		304
11000100170	1100		304
11000100175	1100		304
11000100180	1100		304
11000100190	1100		304
11000100200	1100		304
11000100210	1100		304
11000100220	1100		304
11000100225	1100		304
11000100230	1100		304
11000100240	1100		304
11000100250	1100		304
11000100260	1100		304
11000100270	1100		304
11000100275	1100		304
11000100280	1100		304
11000100290	1100		304
11000100300	1100		304
11000100310	1100		304
11000100320	1100		304
11000100325	1100		304
11000100330	1100		304
11000100340	1100		304
11000100350	1100		304
11000100360	1100		304
11000100370	1100		304
11000100375	1100		304
11000100380	1100		304
11000100390	1100		304
11000100400	1100		304
11000100410	1100		304
11000100420	1100		304
11000100425	1100		304
11000100430	1100		304
11000100440	1100		304
11000100450	1100		304
11000100460	1100		304
11000100470	1100		304
11000100475	1100		304
11000100480	1100		304
11000100490	1100		304
11000100500	1100		304
11000100510	1100		304
11000100520	1100		304
11000100525	1100		304
11000100530	1100		304
11000100540	1100		304
11000100550	1100		304
11000100560	1100		304
11000100570	1100		304
11000100575	1100		304
11000100580	1100		304
11000100590	1100		304
11000100600	1100		304
11000100610	1100		304
11000100620	1100		304
11000100625	1100		304
11000100630	1100		304
11000100640	1100		304
11000100650	1100		304
11000100660	1100		304
11000100670	1100		304
11000100675	1100		304
11000100680	1100		304
11000100690	1100		304
11000100700	1100		304
11000100710	1100		304
11000100720	1100		304
11000100725	1100		304
11000100730	1100		304
11000100740	1100		304
11000100750	1100		304
11000100760	1100		304
11000100770	1100		304
11000100775	1100		304
11000100780	1100		304
11000100790	1100		304
11000100800	1100		304
11000100810	1100		304
11000100820	1100		304
11000100825	1100		304
11000100830	1100		304
11000100840	1100		304
11000100850	1100		304
11000100860	1100		304
11000100870	1100		304
11000100875	1100		304
11000100880	1100		304
11000100890	1100		304
11000100900	1100		304
11000100910	1100		304
11000100920	1100		304
11000100925	1100		304
11000100930	1100		304
11000100940	1100		304
11000100950	1100		304
11000100960	1100		304
11000100970	1100		304
11000100975	1100		304
11000100980	1100		304
11000100990	1100		304
11000101000	1100		304
11000101010	1100		304
11000101020	1100		304
11000101025	1100		304
11000101030	1100		304
11000101040	1100		304
11000101050	1100		304
11000101060	1100		304
11000101070	1100		304
11000101075	1100		304
11000101080	1100		304
11000101090	1100		304
11000101100	1100		304
11000101110	1100		304
11000101120	1100		304
11000101125	1100		304
11000101130	1100		304
11000101140	1100		304
11000101150	1100		304
11000101160	1100		304
11000101170	1100		304
11000101175	1100		304
11000101180	1100		304
11000101190	1100	11,9	305
11000101200	1100	12,0	305
11000101210	1100	12,1	305
11000101220	1100	12,2	305
11000101225	1100	12,25	305
11000101230	1100	12,3	305
11000101240	1100	12,4	305
11000101250	1100	12,5	305
11000101260	1100	12,6	305
11000101270	1100	12,7	305
11000101275	1100	12,75	305
11000101280	1100	12,8	305
11000101290	1100	12,9	305
11000101300	1100	13,0	305
11000101350	1100	13,5	305
11000101400	1100	14,0	305
11000101450	1100	14,5	305
11000101500	1100	15,0	305
11000101550	1100	15,5	305
11000101600	1100	16,0	305
11000101650	1100	16,5	305
11000101700	1100	17,0	305
11000101750	1100	17,5	305
11000101800	1100	18,0	305
11000101850	1100	18,5	305
11000101900	1100	19,0	305
11000101950	1100	19,5	305
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11004910508	1100491	G5/8	328
11004910304	1100491	G3/4	328
11004910708	1100491	G7/8	328
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41031100038	4103	W 3/8	328
41031100716	4103	W 7/16	328
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41031100058	4103	W 5/8	328
41031100034	4103	W 3/4	328
41031100078	4103	W 7/8	328
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951101110140070	9511011	1.1/4"	329
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42051100532	4205	W 5/32	329
42051100316	4205	W 3/16	329
42051100014	4205	W 1/4	329
42051100516	4205	W 5/16	329
42051100038	4205	W 3/8	329
42051100716	4205	W 7/16	329
42051100012	4205	W 1/2	329
42051100916	4205	W 9/16	329
42051100058	4205	W 5/8	329
42051100034	4205	W 3/4	329
42051100078	4205	W 7/8	329
42051100100	4205	W 1	329
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952101100003480	9521011	N°3	329
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42061100832	4206	Nr. 8	330
42061101024	4206	Nr. 10	330
42061101224	4206	Nr. 12	330
42061100014	4206	1/4"	330
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11004710304	1100471	UNC3/4	330
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42071101228	4207	Nr. 12	331
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11004810516	1100481	UNF5/16	331

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11004810716	1100481	UNF7/16	331
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964301110140115	9643011	NPT 1"1/4	336
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104B	113	5 piese	353
115C	113	5 piese	353
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113YD14L0160	113Y	14,0	354
113YD16L0160	113Y	16,0	354
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118YD16L0610	118Y	16,0	356
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118YD20L0610	118Y	20,0	356
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105D	110	7 piese	356
102C	110	7 piese	356
136C	110	5 piese	356
100C	110	4 piese	356
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117YD10L0460	104Y	10,0	356
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184D04L0160	184	4,0	357
184D05L0160	184	5,0	357
184D06L0160	184	6,0	357
184D07L0160	184	7,0	357
184D08L0160	184	8,0	357
184D10L0160	184	10,0	357
184D12L0160	184	12,0	357
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168D14L0340	166	14,0*	357
168D15L0340	166	15,0	357
168D16L0340	166	16,0	357
168D18L0340	166	18,0	357
168D20L0340	166	20,0	357
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168D24L0340	166	24,0	357
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168D30L0340	166	30,0	357
168D32L0340	166	32,0	357
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168D42L0540	166	42	358
168D45L0540	166	45	358
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166YD20L0540	166Y	20,0	358
166YD22L0540	166Y	22,0	358
166YD24L0540	166Y	24,0	358
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166YD36L0540	166Y	36,0	358
166YD40L0540	166Y	40,0	358
166YD42L0540	166Y	42,0	358
166YD45L0540	166Y	45,0	358
161D14L0610	161	14	359
161D16L0610	161	16	359
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161D35L0610	161	35	359
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166D45L0920Q	166	45	360
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165D80L0590	165	80,0	361
165D45L0990	165	45,0	361
165D55L0990	165	55,0	361
165D65L0990	165	65,0	361
165D80L0990	165	80,0	361
376B	376B	26,0	361
373BD32	373B	32,0	361
373BD44	373B	44,0	361
373BD52	373B	52,0	361
373BD60	373B	60,0	361
373BD66	373B	66,0	361
373BD80	373B	80,0	361
372BD40	372B	40,0	361
372BD55	372B	55,0	361
371BD0280	371B	14,0	361
370BD0250	370B	14,0	361
370BD0450	370B	14,0	361
370BD0850	370B	14,0	361
374B	374B	12,0	361
375B	375B	14,0	361
322D12L0250	322 - 323 - 342 - 395	12	362
322D14L0250	322 - 323 - 342 - 395	14	362
323D14L0250	322 - 323 - 342 - 395	14	362
342D18L0280	322 - 323 - 342 - 395	18	362
342D18L0400	322 - 323 - 342 - 395	18	362
342D18L0600	322 - 323 - 342 - 395	18	362
395D14L0270	322 - 323 - 342 - 395	14	362
322YD14L0250	322Y - 342Y	14	362
342YD18L0400	322Y - 342Y	18	362
342YD18L0600	322Y - 342Y	18	362
318L20L0250	318 - 319 - 343 - 396 - 320 - 355	20	362
318L40L0200	318 - 319 - 343 - 396 - 320 - 355	40	362
319L20L0250	318 - 319 - 343 - 396 - 320 - 355	20	362
343L115L0350	318 - 319 - 343 - 396 - 320 - 355	115	362
343L24L0280	318 - 319 - 343 - 396 - 320 - 355	24	362
343L24L0400	318 - 319 - 343 - 396 - 320 - 355	24	362
343L24L0600	318 - 319 - 343 - 396 - 320 - 355	24	362
343L50L0360	318 - 319 - 343 - 396 - 320 - 355	50	362
343L80L0300	318 - 319 - 343 - 396 - 320 - 355	80	362
396L20L0270	318 - 319 - 343 - 396 - 320 - 355	20	362
396L40L0250	318 - 319 - 343 - 396 - 320 - 355	40	362
396L60L0250	318 - 319 - 343 - 396 - 320 - 355	60	362
320L24L0300	318 - 319 - 343 - 396 - 320 - 355	24	362
320L24L0400	318 - 319 - 343 - 396 - 320 - 355	24	362
320L80L0300	318 - 319 - 343 - 396 - 320 - 355	80	362
394L75L0400	318 - 319 - 343 - 396 - 320 - 355	32	362
318YL20L0250	318Y - 343Y	20	362
318YL40L0200	318Y - 343Y	40	362
343YL24L0400	318Y - 343Y	24	362
329L10L0300	329		362
314L32L0300	314	32x23	362
314L35L0380	314	35x36	362
363D16L0045	363	45	362
348L40L0200	348 - 349 - 397	40	362
349L50L0300	348 - 349 - 397	50	362
397L40L0250	348 - 349 - 397	40	362
361L40L0280	361	38	363
311L22L0250	311 - 312	22	363
312L26L0300	311 - 312	26	363
310H19L0400	329		363
324H19L0300	324	19	363
324H19L0400	324	19	363
359D22L0360	359	22	363
354H28L0400	354	28	363
393D24L0400	393	24	363
347L24L0400	347	24	363
320L24L0300	320	24	363
320L24L0400	320	24	363
320L80L0300	320	80	363
355L28L0360	355	28	364
341L32L0400	341	32	364
394L32L0400	394	32	364
394L75L0400	394	75	364
315C	315 C	5 piese	364
426D06	426	6,0	365
426D06.5	426	6,5	365
426D07	426	7,0	365
426D08	426	8,0	365
426D10	426	10,0	365
426D12	426	12,0	365
426D13	426	13,0	365
426D15	426	15,0	365
426D20	426	20,0	365
426D25	426	25,0	365
426B	426B	9 piese	365
426C	426C	6 piese	365
426YD06	426Y	6,0	365
426YD06.5	426Y	6,5	365
426YD08	426Y	8,0	365
426YD10	426Y	10,0	365
426YD12	426Y	12,0	365
426YD15	426Y	15,0	365
426YD20	426Y	20,0	365
426YD25	426Y	25,0	365
416	416	20	365
10960520300	1096052	3	365
10960520400	1096052	4	365
10960520500	1096052	5	365
10960520600	1096052	6	365
10960520700	1096052	7	365
10960520800	1096052	8	365
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10960521000	1096052	10	365
10960521200	1096052	12	365
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263D06	263	6,0	366
263D06.5	263	6,5	366
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263D10	263	10,0	366
263D12	263	12,0	366
263D13	263	13,0	366
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263D10L0200	263	10,0	366
263D12L0200	263	12,0	366
263D13L0200	263	13,0	366
263D06L0400	263	6,0	366
263D06.5L0400	263	6,5	366
263D08L0400	263	8,0	366
263D10L0400	263	10,0	366
263D12L0400	263	12,0	366
263D13L0400	263	13,0	366
263B	263B	5 piese	366
263YD04	263Y	4,0	366
263YD05	263Y	5,0	366
263YD06	263Y	6,0	366
263YD08	263Y	8,0	366
263YD10	263Y	10,0	366
263YD12	263Y	12,0	366
264YD03	264Y	3,0	366

264YD04	264Y	4,0	366
264YD05	264Y	5,0	366
264YD06	264Y	6,0	366
264YD06.5	264Y	6,5	366
264YD07	264Y	7,0	366
264YD08	264Y	8,0	366
264YD09	264Y	9,0	366
264YD10	264Y	10,0	366
264YD11	264Y	11,0	366
264YD12	264Y	12,0	366
264YD13	264Y	13,0	366
264YD14	264Y	14,0	366
264YD16	264Y	16,0	366
264YD18	264Y	18,0	366
264YD20	264Y	20,0	366
264YD05L0150	264Y	5,0	366
264YD06L0150	264Y	6,0	366
264YD06L0200	264Y	6,0	366
264YD08L0200	264Y	8,0	366
264YD10L0200	264Y	10,0	366
264YD12L0200	264Y	12,0	366
264YD14L0200	264Y	14,0	366
264YD16L0200	264Y	16,0	366
264YD08L0400	264Y	8,0	366
264YD10L0400	264Y	10,0	366
264YD12L0400	264Y	12,0	366
264YD14L0400	264Y	14,0	366
264YD16L0400	264Y	16,0	366
265D03	265	3,0	367
265D03.5	265	3,5	367
265D04	265	4,0	367
265D04.5	265	4,5	367
265D05	265	5,0	367
265D05.5	265	5,5	367
265D06	265	6,0	367
265D06.5	265	6,5	367
265D07	265	7,0	367
265D07.5	265	7,5	367
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265D08.5	265	8,5	367
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265D09.5	265	9,5	367
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265D16	265	16,0	367
265D17	265	17,0	367
265D18	265	18,0	367
265D19	265	19,0	367
265D20	265	20,0	367
265D05L0150	265	5,0	367
265D05.5L0150	265	5,5	367
265D06L0150	265	6,0	367
265D06.5L0150	265	6,5	367
265D07L0150	265	7,0	367
265D08L0150	265	8,0	367
265D09L0150	265	9,0	367
265D10L0150	265	10,0	367
265D06L0200	265	6,0	367
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265D07L0300	265	7,0	367
265D08L0300	265	8,0	367
265D09L0300	265	9,0	367
265D10L0300	265	10,0	367
265D12L0300	265	12,0	367
265D14L0300	265	14,0	367
265D15L0300	265	15,0	367
265D16L0300	265	16,0	367
265D18L0300	265	18,0	367
265D20L0300	265	20,0	367
265D06L0400	265	6,0	367
265D07L0400	265	7,0	367
265D08L0400	265	8,0	367
265D09L0400	265	9,0	367
265D10L0400	265	10,0	367
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265D14L0400	265	14,0	367
265D15L0400	265	15,0	367
265D16L0400	265	16,0	367
265D18L0400	265	18,0	367
265D20L0400	265	20,0	367
265D22L0400	265	22,0	367
265D24L0400	265	24,0	367
265D25L0400	265	25,0	367
265D06L0600	265	6,0	367
265D08L0600	265	8,0	367
265D10L0600	265	10,0	367
265D12L0600	265	12,0	367
265D14L0600	265	14,0	367
265D16L0600	265	16,0	367
265D18L0600	265	18,0	367
265D20L0600	265	20,0	367
265D06L1000	265	6,0	367
265D08L1000	265	8,0	367
265D10L1000	265	10,0	367
265D12L1000	265	12,0	367
265D18L1000	265	18,0	367
265D22L1000	265	22,0	367
265D25L1000	265	25,0	367
250C	265	8 piese	367
251C	265	5 piese	367
252C	265	5 piese	367
268R	265	5 piese	367
269R	265	5 piese	367
271R	265	3 piese	367
226YD04	226Y	4,0	368
226YD05	226Y	5,0	368
226YD06	226Y	6,0	368
226YD08	226Y	8,0	368
226YD10	226Y	10,0	368
226YD12	226Y	12,0	368
215D03	215	3,0	368
215D04	215	4,0	368
215D05	215	5,0	368
215D05.5	215	5,5	368
215D06	215	6,0	368
215D06.5	215	6,5	368
215D07	215	7,0	368
215D08	215	8,0	368
215D09	215	9,0	368
215D10	215	10,0	368
215D12	215	12,0	368
215D13	215	13,0	368
215D14	215	14,0	368
215D16	215	16,0	368
215C	215	8 piese	368
215B	215	5 piese	368
215YD04	215Y	4,0	368
215YD05	215Y	5,0	368
215YD06	215Y	6,0	368
215YD08	215Y	8,0	368
215YD10	215Y	10,0	368
215YD12	215Y	12,0	368
245D03	245	3,0	368
245D04	245	4,0	368
245D05	245	5,0	368
245D06	245	6,0	368
245D07	245	7,0	368
245D08	245	8,0	368
245D09	245	9,0	368
245D10	245	10,0	368
245D12	245	12,0	368
239B	245	8 piese	368
214B	245	5 piese	368
208D04	208	4,0	369
208D05	208	5,0	369
208D06	208	6,0	369
208D06.5	208	6,5	369
208D07	208	7,0	369
208D08	208	8,0	369
208D09	208	9,0	369
208D10	208	10,0	369
208D12	208	12,0	369
208D14	208	14,0	369
208D16	208	16,0	369
207B	207B	8 piese	369
208YD04	208Y	4,0	369
208YD05	208Y	5,0	369
208YD06	208Y	6,0	369
208YD08	208Y	8,0	369
208YD10	208Y	10,0	369
208YD12	208Y	12,0	369
400D03	400	3,0	369
400D04	400	4,0	369
400D05	400	5,0	369
400D06	400	6,0	369
400D07	400	7,0	369
400D08	400	8,0	369
400D09	400	9,0	369
400D10	400	10,0	369
400D12	400	12,0	369
400D13	400	13,0	369
400YD04	400Y	4,0	369
400YD06	400Y	6,0	369
400YD08	400Y	8,0	369
201D05	201	5,0	369
201D06	201	6,0	369
201D08	201	8,0	369
201D10	201	10,0	369
431D68	431	68	370
431D82	431	82	370
432D29	432	29	370
432D35	432	35	370
432D42	432	42	370
432D52	432	52	370
432D65	432	65	370
431C	431C	5 piese	370
367L0100	367 - 368 - 433	100	370
367L0170	367 - 368 - 433	170	370
367L0220	367 - 368 - 433	220	370
367L0320	367 - 368 - 433	320	370
368L100	367 - 368 - 433	100	370
433L0100	367 - 368 - 433	100	370
433L0220	367 - 368 - 433	220	370
433L0320	367 - 368 - 433	320	370
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420D08L0210	420	8	370
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326D30	326	30	370
326D35	326	35	370
326D40	326	40	370
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326D50	326	50	370
326D60	326	60	370
326D66	326	66	370
326D68	326	68	370
326D70	326	70	370
326D80	326	80	370
326D90	326	90	370
328L0090	327 - 328 - 365	90	371
328L150	327 - 328 - 365	150	371
328L200	327 - 328 - 365	200	371
328L300	327 - 328 - 365	300	371
327	327 - 328 - 365	90	371
365L0135	327 - 328 - 365	135	371
366D30	366	30	371
366D35	366	35	371
366D40	366	40	371
366D45	366	45	371
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366D60	366	60	371
366D66	366	66	371
366D68	366	68	371
366D70	366	70	371
366D80	366	80	371
366D85	366	85	371
366D90	366	90	371
366D105	366	105	371
366D125	366	125	371
366D130	366	130	371
367L0100	367 - 368	100	371
367L0170	367 - 368	170	371
367L0220	367 - 368	220	371
367L0320	367 - 368	320	371
368L100	367 - 368	100	371
370D09L0100	370	8	371
300D30	300	30	371
300D35	300	35	371
300D40	300	40	371
300D45	300	45	371
300D50	300	50	371
300D60	300	60	371
300D66	300	66	371
300D70	300	70	371
300D80	300	80	371
300D90	300	90	371
300D100	300	100	371
300D110	300	110	371
300D125	300	125	371
300D150	300	150	371
330L0220	330	220	372
330L0420	330	420	372
330L0700	330	700	372
330L0900	330	900	372

301L0220	301	220	372
301L0420	301	420	372
301L0700	301	700	372
301L0900	301	900	372
302	302	11	372
303	303	1	372
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439BD092L0400	439B	92	372
439BD102L0400	439B	102	372
439BD112L0400	439B	112	372
439BD122L0400	439B	122	372
439BD127L0400	439B	127	372
439BD132L0400	439B	132	372
439BD142L0400	439B	142	372
439BD152L0400	439B	152	372
439BD162L0400	439B	162	372
439BD172L0400	439B	172	372
439BD182L0400	439B	182	372
439BD196L0400	439B	196	372
439BD200L0400	439B	200	372
436AD030L0400	436	30	372
436AD035L0400	436	35	372
436AD040L0400	436	40	372
436AD046L0400	436	46	372
436AD051L0400	436	51	372
436AD056L0400	436	56	372
436AD061L0400	436	61	372
436AD066L0400	436	66	372
436AD071L0400	436	71	372
436AD082L0400	436	82	372
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436AD092L0400	436	92	372
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436AD112L0400	436	112	372
436AD127L0400	436	127	372
436AD132L0400	436	132	372
436AD152L0400	436	152	372
436AD162L0400	436	162	372
436AD169L0400	436	169	372
436AD200L0400	436	200	372
436BD046L0400	436	46	372
436BD051L0450	436	51	372
436BD056L0400	436	56	372
436BD061L0450	436	61	372
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436BD112L0450	436	112	372
436BD117L0450	436	117	372
436BD122L0450	436	122	372
436BD127L0450	436	127	372
436BD132L0450	436	132	372
436BD142L0450	436	142	372
436BD152L0450	436	152	372
436BD162L0450	436	162	372
436BD169L0450	436	169	372
436BD172L0450	436	172	372
436BD182L0400	436	182	372
436BD187L0400	436	187	372
436BD196L0400	436	196	372
436BD200L0400	436	200	372
436BD212L0400	436	212	372
436BD225L0400	436	225	372
436BD226L0400	436	226	372
436BD248L0400	436	248	372
436BD250L0400	436	250	372
436BD266L0400	436	266	372
436BD275L0450	436	275	372
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436BD297L0400	436	297	372
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436BD342L0450	436	342	372
436BD350L0450	436	350	372
436BD353L0450	436	353	372
436BD400L0450	436	400	372
436BD405L0450	436	405	372
33289 00101	3346/89-FB	3 1/2"	373
33276 00101	3346/76-TB	3"	373
33651 00001	33/50	Ø 51 mm, NL 165 mm	373
33660 00001	33/60	Ø 60 mm, NL 165 mm	373
33670 00001	33/70	Ø 70 mm, NL 165 mm	373
33680 00001	33/80	Ø 80 mm, NL 165 mm	373
33702 00001	33/102	Ø 102 mm, NL 165 mm	373
33711 00001	33/111	Ø 111 mm, NL 165 mm	373
33721 00001	33/121	Ø 121 mm, NL 165 mm	373
33730 00001	33/130	Ø 130 mm, NL 165 mm	373
33752 00001	33/152	Ø 152 mm, NL 165 mm	373
33760 00001	33/160	Ø 160 mm, NL 165 mm	373
33435 00101	LWS 35/85	35 mm	373
33465 00101	LWS 65/85	65 mm	373
33468 00101	LWS 68/85	68 mm	373
33474 00101	LWS 74/85	74 mm	373
33506 00101	LWS 106,5/85	106,5 mm	373
33521 00101	LWS 121/85	121 mm	373
33600 00001	3346/60-LB	2 11/18"	373
32016 00001	32/16	16 mm	374
32020 00001	32/20	20 mm	374
32025 00001	32/25	25 mm	374
32032 00001	32/32	32 mm	374
32044 00001	32/44	44 mm	374
32051 00001	32/51	51 mm	374
32054 00001	32/54	54 mm	374
32060 00001	32/60	60 mm	374
32064 00001	32/64	64 mm	374
32070 00001	32/70	70 mm	374
32073 00001	32/73	73 mm	374
32083 00001	32/83	83 mm	374
32102 00001	32/102	102 mm	374
33030 00001	33/30	30 mm	374
33040 00001	33/40	40 mm	374
33050 00001	33/50	50 mm	374
33055 00001	33/55	55 mm	374
33060 00001	33/60	60 mm	374
33065 00001	33/65	65 mm	374
33068 00001	33/68	68 mm	374
33076 00001	33/76	76 mm	374
33080 00001	33/80	80 mm	374
33090 00001	33/90	90 mm	374
33105 00001	33/105	105 mm	374
33116 00001	33/S16	33/S16LS 16 mm	374
33119 00001	33/S19	33/S19LS 19 mm	374
33120 00001	33/S20	33/S20LS 20 mm	374
33122 00001	33/S22	33/S22LS 22 mm	374
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33129 00001	33/S29	33/S29LS 29 mm	374
33130 00001	33/S30	33/S30LS 30 mm	374
33132 00001	33/S32	33/S32LS 32 mm	374
33135 00001	33/S35	33/S35LS 35 mm	374
33138 00001	33/S38	33/S38LS 38 mm	374
33140 00001	33/S40	33/S40LS 40 mm	374
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33145 00001	33/S45	33/S45LS 45 mm	374
33150 00001	33/S50	33/S50LS 50 mm	374
33151 00001	33/S51	33/S51LS 51mm	374
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33157 00001	33/S57	33/S57LS 57mm	374
33160 00001	33/S60	33/S60LS 60mm	374
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33164 00001	33/S64	33/S64LS 64mm	374
33165 00001	33/S65	33/S65LS 65mm	374
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33168 00001	33/S68	33/S68LS 68mm	374
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33173 00001	33/S73	33/S73LS 73mm	374
33174 00001	33/S74	33/S74LS 74mm	374
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33179 00001	33/S79	33/S79LS 79mm	374
33180 00001	33/S80	33/S80LS 80mm	374
33182 00001	33/S82	33/S82LS 82mm	374
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33208 00001	33/S108	33/S108LS 108mm	374
33211 00001	33/S111	33/S111LS 111mm	374
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33221 00001	33/S121	33/S121LS 121mm	374
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33233 00001	33/S133	33/S133LS 133mm	374
33240 00001	33/S140	33/S140LS 140mm	374
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33260 00001	33/S160	33/S160LS 160mm	374
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30014 00101	30/14	14 mm	375
30016 00101	30/16	16 mm	375
30017 00101	30/17	17 mm	375
30019 00101	30/19	19 mm	375
30020 00101	30/20	20 mm	375
30021 00101	30/21	21 mm	375
30022 00101	30/22	22 mm	375
30023 00101	30/23	23 mm	375
30024 00101	30/24	24 mm	375
30025 00101	30/25	25 mm	375
30027 00101	30/27	27 mm	375
30029 00101	30/29	29 mm	375
30030 00101	30/30	30 mm	375
30032 00101	30/32	32 mm	375
30033 00101	30/33	33 mm	375
30035 00101	30/35	35 mm	375
30037 00101	30/37	37 mm	375
30038 00101	30/38	38 mm	375
30040 00101	30/40	40 mm	375
30041 00101	30/41	41 mm	375
30043 00101	30/43	43 mm	375
30044 00101	30/44	44 mm	375
30046 00101	30/46	46 mm	375
30048 00101	30/48	48 mm	375
30050 00101	30/51	50 mm	375
30051 00101	30/51	51 mm	375
30052 00101	30/52	52 mm	375
30054 00101	30/54	54 mm	375
30057 00101	30/57	57 mm	375
30058 00101	30/58	58 mm	375
30059 00101	30/59	59 mm	375
30060 00101	30/60	60 mm	375
30064 00101	30/64	64 mm	375
30065 00101	30/65	65 mm	375
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30068 00101	30/68	68 mm	375
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30073 00101	30/73	73 mm	375
30076 00101	30/76	76 mm	375
30079 00101	30/79	79 mm	375
30083 00101	30/83	83 mm	375
30086 00101	30/86	86 mm	375
30089 00101	30/89	89 mm	375
30092 00101	30/92	92 mm	375
30095 00101	30/95	95 mm	375
30098 00101	30/98	98 mm	375
30102 00101	30/102	102 mm	375
30105 00101	30/105	105 mm	375
30108 00101	30/108	108 mm	375
30111 00101	30/111	111 mm	375
30114 00101	30/114	114 mm	375
30121 00101	30/121	121 mm	375
30127 00101	30/127	127 mm	375
30133 00101	30/133	133 mm	375
30140 00101	30/140	140 mm	375
30146 00101	30/146	146 mm	375
30152 00101	30/152	152 mm	375
30160 00101	30/160	160 mm	375
30168 00101	30/168	168 mm	375
30177 00101	30/177	177 mm	375
30200 00101	30/200	200 mm	375
30210 00101	30/210	210 mm	375
30235 00101	30/235	235 mm	375
30250 00101	30/250	250 mm	375
29014 00001	29/14	14 mm	375
29016 00001	29/16	16 mm	375
29017 00001	29/17	17 mm	375
29019 00001	29/19	19 mm	375
29020 00001	29/20	20 mm	375
29021 00001	29/21	21 mm	375
29022 00001	29/22	22 mm	375
29023 00001	29/23	23 mm	375
29024 00001	29/24	24 mm	375
29025 00001	29/25	25 mm	375
29027 00001	29/27	27 mm	375
29029 00001	29/29	29 mm	375
29030 00001	29/30	30 mm	375
29032 00001	29/32	32 mm	375
29033 00001	29/33	33 mm	375
29035 00001	29/35	35 mm	375
29037 00001	29/37	37 mm	375
29038 00001	29/38	38 mm	375
29040 00001	29/40	40 mm	375
29041 00001	29/41	41 mm	375
29043 00001	29/43	43 mm	375
29044 00001	29/44	44 mm	375
29046 00001	29/46	46 mm	375
29048 00001	29/48	48 mm	375
29051 00001	29/51	51 mm	375
29052 00001	29/52	52 mm	375
29054 00001	29/54	54 mm	375

29057 00001	29/57	57 mm	375
29058 00001	29/58	58 mm	375
29059 00001	29/59	59 mm	375
29060 00001	29/60	60 mm	375
29064 00001	29/64	64 mm	375
29065 00001	29/65	65 mm	375
29067 00001	29/67	67 mm	375
29068 00001	29/68	68 mm	375
29070 00001	29/70	70 mm	375
29073 00001	29/73	73 mm	375
29076 00001	29/76	76 mm	375
29079 00001	29/79	79 mm	375
29083 00001	29/83	83 mm	375
29086 00001	29/86	86 mm	375
29089 00001	29/89	89 mm	375
29092 00001	29/92	92 mm	375
29095 00001	29/95	95 mm	375
29098 00001	29/98	98 mm	375
29102 00001	29/102	102 mm	375
29105 00001	29/105	105 mm	375
29108 00001	29/108	108 mm	375
29111 00001	29/111	111 mm	375
29114 00001	29/114	114 mm	375
29121 00001	29/121	121 mm	375
29127 00001	29/127	127 mm	375
29133 00001	29/133	133 mm	375
29140 00001	29/140	140 mm	375
29146 00001	29/146	146 mm	375
29152 00001	29/152	152 mm	375
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19000900127	1900	127	376
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19000900140	1900	140	376
19000900152	1900	152	376
19000900168	1900	168	376
19000900210	1900	210	376
31014 00101	31/14	14 mm	376
31016 00101	31/16	16 mm	376
31017 00101	31/17	17 mm	376
31019 00101	31/19	19 mm	376
31020 00101	31/20	20 mm	376
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31022 00101	31/22	22 mm	376
31023 00101	31/23	23 mm	376
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31046 00101	31/46	46 mm	376
31048 00101	31/48	48 mm	376
31051 00101	31/51	51 mm	376
31054 00101	31/54	54 mm	376
31057 00101	31/57	57 mm	376
31060 00101	31/60	60 mm	376
31064 00101	31/64	64 mm	376
31065 00101	31/65	65 mm	376
31068 00101	31/68	68 mm	376
31070 00101	31/70	70 mm	376
31076 00101	31/76	76 mm	376
31079 00101	31/79	79 mm	376
31083 00101	31/83	83 mm	376
31105 00101	31/105	105 mm	376
31127 00101	31/127	127 mm	376
31917 00101	31/17 XL	17 mm	376
31922 00101	31/22 XL	22 mm	376
31925 00101	31/25 XL	25 mm	376
30501 00101	EKS	19 / 25 mm - 10 tpi	377
30550 00101	EKA 3	19 / 22 / 25 mm - 10 tpi	377
30600 00101	TKS	19 / 25 mm - 10 tpi	377
30510 00101	EKE	19 / 25 mm - 10 tpi	377
30560 00101	EKAR	19 / 22 / 25 mm - 10 tpi	377
30620 00101	TKI	19 / 24 / 58 / 60 / 68 / 79 mm - 4/6 tpi	377
30610 00101	TKE	22 mm - 10 ZpZ	378
30991 00000		3x Ø 19 mm	378
30991 00000		3x Ø 22 mm	378
30991 00000		3x Ø 25 mm	378
30991 00000		3x Ø 29 mm	378
30991 00000		3x Ø 38 mm	378
30991 00000		3x Ø 44 mm	378
30991 00000		3x Ø 51 mm	378
30991 00000		3x Ø 57 mm	378
30991 00000		3x Ø 65 mm	378
30991 00000		3x Ø 68 mm	378
30991 00000		3x Ø 76 mm	378
30991 00000		3x Ø 83 mm	378
30991 00000		3x Ø 92 mm	378
30991 00000		3x ZE 2 / 9.5 mm	378
30991 00000		3x ZE 4 / 11 mm	378
30991 00000		3x ZE 4 A / 9.5 mm	378
33620 00001	HMS-2	15 piese	378
33630 00001	HMS-3	15 piese	378
19100900001	1910	SW 11	378
19100900011	1910	SW 9,5	378
19100900003	1910	SW 11	378
19100900033	1910	SW 9,5	378
19100900004	1910	SDS-plus	378
19100900006	1910	SDS-plus	378
30301 00001	ZE 1	6 mm	379
30302 00001	ZE 2	9,5 mm	379
30313 00001	ZE 2B	9,5 mm	379
30303 00001	ZE 3	11 mm	379
30304 00001	ZE 4	11 mm	379
30308 00001	ZE 4A	9,5 mm	379
30312 00001	ZE 4B	11 mm	379
30305 00001	ZE 5	11 mm	379
30306 00001	ZE 6	SDS-plus	379
30307 00001	ZE 7	SDS-plus	380
30310 00001	ZE 8	9,5 mm	380
30314 00001	ZE 8B	9,5 mm	380
30309 00001	ZE 9	11 mm	380
30316 00001	ZE 11	11 mm	380
30401 00002	ZEV 9.5	9,5 mm	380
30401 00001	ZEV 11	11 mm	380
30410 00001	ZEB1	83 mm	380
30411 00001	ZEB2	102 mm	380
30412 00001	ZEB3	102 mm	381
30414 00001	ZEB4	185 mm	381
30415 00001	ZEB5	max. 165 mm	381
30420 00001	ZES		381
30430 00001	ZEA		381
30431 00001	ZEI		381
33301 00001	UL-ZE 1	118 mm	381
33302 00001	UL-ZE 2	118 mm	381
33401 00001	UL-ZEB 1	120 mm	381
33402 00001	UL-ZEB 2	109 mm	381
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30413 00001	RL ZEB 4	100 mm	382
30434 00005	RL B14-30S	5 x Ø 14-30 mm	382
30434 00005	RL B32-210S	5 x Ø 32-210 mm	382
30434 00005	RL B32-210S	2 x Ø14-30 mm; 3 x Ø 32-210 mm	382
30433 00001	RL B14-30L	1 x Ø 14-30 mm	382
30435 00001	RL B32-210L	1 x Ø 32-210 mm	382
30436 00002	RL B14-210L	1 x Ø 14-30 mm / 1 x Ø 32-210 mm	382
34015 00001	34/15,2 F	15,2 mm	383
34016 00001	34/16 F	16 mm	383
34018 00001	34/18 F	18 mm	383
34019 00001	34/18,6 F	18,6 mm	383
34020 00001	34/20 F	20 mm	383
34021 00001	34/21 F	21 mm	383
34022 00001	34/22 F	22 mm	383
34023 00001	34/22,5 F	22,5 mm	383
34025 00001	34/25 F	25 mm	383
34026 00001	34/26 F	26 mm	383
34027 00001	34/27 F	27 mm	383
34028 00001	34/28,3 F	28,3 mm	383
34030 00001	34/30 F	30 mm	383
34035 00001	34/35 F	35 mm	383
34037 00001	34/37 F	37 mm	383
34040 00001	34/40 F	40 mm	383
34045 00001	34/45 F	45 mm	383
34047 00001	34/47 F	47 mm	383
34050 00001	34/50 F	50 mm	383
34051 00001	34/51 F	51 mm	383
34054 00001	34/54 F	54 mm	383
34055 00001	34/55 F	55 mm	383
34060 00001	34/60 F	60 mm	383
34065 00001	34/65 F	65 mm	383
34068 00001	34/68 F	68 mm	383
34070 00001	34/70 F	70 mm	383
34075 00001	34/75 F	75 mm	383
34080 00001	34/80 F	80 mm	383
34085 00001	34/85 F	85 mm	383
34090 00001	34/90 F	90 mm	383
34095 00001	34/95 F	95 mm	383
34100 00001	34/100 F	100 mm	383
34410 00001	HM-ZEB Flach	burghiu centrare	383
34420 00001	HM-ZES	arc ejector	383
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19560300219	1956	MK 2	385
19560300319	1956	MK 3	385
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10370611200	1037061	12.0	387
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10370612800	1037061	28.0	387
10370613000	1037061	30.0	387
10370613200	1037061	32.0	387
10370613500	1037061	35.0	387
10370613800	1037061	38.0	387
10370614000	1037061	40.0	387
10370614200	1037061	42.0	387
10370614500	1037061	45.0	387
10370614800	1037061	48.0	387
10370615000	1037061	50.0	387
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17001/ENC	17001/ENC	2 piese	390
17060/ENC	17060/ENC	2 piese	391
17020/DB15	17020/DB15	2 piese	391
17040/ENC	17040/ENC	4 piese	391

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	M42-420 MASSIVE Expert	13 x 0,65	396

M42-420 MASSIVE Expert	13 x 0,90	396
M42-420 MASSIVE Expert	20 x 0,90	396
M42-420 MASSIVE Expert	27 x 0,90	396
M42-420 MASSIVE Expert	34 x 1,10	396
M42-421 MASSIVE Expert Plus	6 x 0,90	396
M42-421 MASSIVE Expert Plus	10 x 0,90	396
M42-421 MASSIVE Expert Plus	13 x 0,65	396
M42-421 MASSIVE Expert Plus	13 x 0,90	396
M42-421 MASSIVE Expert Plus	20 x 0,90	396
M42-421 MASSIVE Expert Plus	27 x 0,90	396
M42-421 MASSIVE Expert Plus	34 x 1,10	396
M42-421 MASSIVE Expert Plus	41 x 1,30	396
M42-421 MASSIVE Expert Plus	54 x 1,30	396
M42-421 MASSIVE Expert Plus	54 x 1,60	396
M42-421 MASSIVE Expert Plus	67 x 1,60	396
M42-426 ALU Expert	13 x 0,90	396
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M42-426 ALU Expert	27 x 0,90	396
M42-426 ALU Expert	34 x 1,10	396
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M42-430 Universal	13 x 0,65	396
M42-430 Universal	13 x 0,90	396
M42-430 Universal	20 x 0,90	396
M42-430 Universal	27 x 0,90	396
M42-430 Universal	34 x 1,10	396
M42-430 Universal	41 x 1,30	396
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M42-431 MASSIVE	54 x 1,30	397
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M42-438 MASSIVE Proeminent Plus	54 x 1,60	398
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M42-461 PROFILE Universal Plus	54 x 1,60	398
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M51-531 MASSIVE Profi M 51	54 x 1,60	399
M51-531 MASSIVE Profi M 51	67 x 1,60	399
M51-537 MASSIVE Super M 51	34 x 1,10	399
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M51-537 MASSIVE Super M 51	54 x 1,60	399
M51-537 MASSIVE Super M 51	67 x 1,60	399
M51-544 MASSIVE Plus M 51	41 x 1,30	399
M51-544 MASSIVE Plus M 51	54 x 1,60	399
M51-544 MASSIVE Plus M 51	67 x 1,60	399
M51-544 MASSIVE Plus M 51	80 x 1,60	399
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GOLD M42 PLUS	27 x 0,90	401
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GOLD M42 Extreme	27 x 0,90	401
GOLD M42 Extreme	34 x 1,10	401
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GOLD M42 Premium	27 x 0,90	402
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GOLD M42 Premium	67 x 1,60	402
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GOLD M42 Ultima	54 x 1,60	402
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6114561508	22 2961	400	404
4004020008	22 2961	400	404
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6115561504	22 2961	450	404
6115561508	22 2961	450	404
6115561510	22 2961	450	404
6115561514	22 2961	450	404
4504020006	22 2961	450	404
4504020008	22 2961	450	404
4504020010	22 2961	450	404
6116661504	22 2961	500	404
6116661508	22 2961	500	404
6116661510	22 2961	500	404
6116661500	22 2961	500	404
5505025006	22 2961	550	404
5505025008	22 2961	550	404
5505025004	22 2961	550	404
6117761504	22 2961	600	404
6117761508	22 2961	600	404
6117761510	22 2961	600	404
6117761500	22 2961	600	404
6118761504	22 2961	600	404
6118761500	22 2961	600	404
6118761508	22 2961	600	404
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7005002506B	7005002506B	700	405
4003201606	4003201606	400	405
6004502256	6004502256	600	405
7505002506	7505002506	750	405
9005002506	9005002506	900	405
02104 00005	HC 19 R BI	80 x 7,9 x 1,27 mm	409
02104 00025	HC 19 R BI	80 x 7,9 x 1,27 mm	409
02104 00011	HC 19 R BI	80 x 7,9 x 1,27 mm	409
02106 00005	HC 19 R STAR	117 x 10 x 1,45 mm	409
02106 00025	HC 19 R STAR	117 x 10 x 1,45 mm	409
02111 00005	HC 12 BI	100 x 7,8 x 1,27 mm	409
02105 00002	HC 123 STAR	117 x 10 x 1,45 mm	409
02105 00005	HC 123 STAR	117 x 10 x 1,45 mm	409
02105 00025	HC 123 STAR	117 x 10 x 1,45 mm	409
02105 00011	HC 123 STAR	117 x 10 x 1,45 mm	409
02110 00002	HC 12	100 x 7,8 x 1,45 mm	409
02110 00005	HC 12	100 x 7,8 x 1,45 mm	409
02110 00025	HC 12	100 x 7,8 x 1,45 mm	409
02110 00099	HC 12	100 x 7,8 x 1,45 mm	409
02112 00005	HC 12 D	100 x 7,8 x 1,68 mm	409
02176 00005	HC 22 DV	100 x 6,5 x 1,45 mm	410
02114 00002	HC 12 R	100 x 7,8 x 1,45 mm	410
02114 00005	HC 12 R	100 x 7,8 x 1,45 mm	410
02120 00005	HC 32	132 x 7,8 x 1,45 mm	410
02140 00002	HC 13	100 x 7,8 x 1,45 mm	410
02140 00005	HC 13	100 x 7,8 x 1,45 mm	410
02113 00002	HC 12 K	76,5 x 4,5 x 1,25 mm	410
02113 00005	HC 12 K	76,5 x 4,5 x 1,25 mm	410
02115 00005	HC 12 R BI	100 x 7,8 x 1,27 mm	410
02124 00005	HC 32 R	132 x 7,8 x 1,45 mm	410
02141 00005	HC 13 BI	100 x 7,8 x 1,27 mm	410
02150 00005	HC 33	132 x 7,8 x 1,45 mm	411
02172 00005	HC 14 D	100 x 7,8 x 1,68 mm	411
02172 00020	HC 14 D	100 x 7,8 x 1,68 mm	411
02180 00005	HC 34	132 x 7,8 x 1,45 mm	411
02180 00025	HC 34	132 x 7,8 x 1,45 mm	411
02222 00005	HCGS 14 D	100 x 7,8 x 1,68 mm	411
02170 00002	HC 14	100 x 7,8 x 1,45 mm	411
02170 00005	HC 14	100 x 7,8 x 1,45 mm	411
02170 00025	HC 14	100 x 7,8 x 1,45 mm	411
02170 00099	HC 14	100 x 7,8 x 1,45 mm	411
02173 00002	HC 14 XD BI	100 x 8 x 2,5 mm	411
02182 00005	HC 34 D	132 x 7,8 x 1,45 mm	411
02280 00005	HC 13	100 x 9,8 x 1,27 mm	411
02280 00025	HC 13	100 x 9,8 x 1,27 mm	411
02280 00099	HC 13	100 x 9,8 x 1,27 mm	411
02290 00005	HG 13 G	100 x 8,0 x 1,0 mm	412
02361 00005	HGS 14 BI	100 x 8,0 x 1,0 mm	412
02376 00005	HGS 24 DV	100 x 6,5 x 1,27 mm	412
02390 00005	HGS 54	180 x 7,8 x 1,27 mm	412
02360 00002	HGS 14	100 x 7,8 x 1,27 mm	412
02360 00005	HGS 14	100 x 7,8 x 1,27 mm	412
02360 00025	HGS 14	100 x 7,8 x 1,27 mm	412
02360 00099	HGS 14	100 x 7,8 x 1,27 mm	412
02370 00002	HGS 24	100 x 6,5 x 1,27 mm	412
02370 00005	HGS 24	100 x 6,5 x 1,27 mm	412
02370 00025	HGS 24	100 x 6,5 x 1,27 mm	412
02370 00099	HGS 24	100 x 6,5 x 1,27 mm	412
02380 00005	HGS 34	132 x 7,8 x 1,27 mm	412
02395 00003	HGS 74	250 x 19 x 1,27 mm	412
02410 00005	HW 12	76,5 x 7,8 x 1,0 mm	413

02501 00005	MC 12 BI	100 x 7,8 x 1,27 mm	413
02521 00005	MG 107 BI	76,5 x 7,8 x 1,0 mm	413
02551 00005	MG 11 BI	76,5 x 7,8 x 1,0 mm	413
02551 00025	MG 11 BI	76,5 x 7,8 x 1,0 mm	413
02413 00005	HW 12 K	76,5 x 7,8 x 1,0 mm	413
02520 00005	MG 107	76,5 x 7,8 x 1,0 mm	413
02550 00002	MG 11	76,5 x 7,8 x 1,0 mm	413
02550 00005	MG 11	76,5 x 7,8 x 1,0 mm	413
02550 00025	MG 11	76,5 x 7,8 x 1,0 mm	413
02550 00099	MG 11	76,5 x 7,8 x 1,0 mm	413
02560 00005	MG 21	76,5 x 7,8 x 1,0 mm	413
02671 00005	MG 31	132 x 9,8 x 1,0 mm	414
02575 00005	MG 51 BI	180 x 9,8 x 1,0 mm	414
02641 00005	MG 3016 BI	116 x 9,8 x 1,0 mm	414
02650 00002	MG 12	76,5 x 7,8 x 1,0 mm	414
02650 00005	MG 12	76,5 x 7,8 x 1,0 mm	414
02650 00025	MG 12	76,5 x 7,8 x 1,0 mm	414
02571 00002	MG 31 BI	132 x 9,8 x 1,0 mm	414
02571 00005	MG 31 BI	132 x 9,8 x 1,0 mm	414
02581 00005	MG 14 BI	76,5 x 7,8 x 1,0 mm	414
02621 00005	MG 1014 BI	100 x 9,8 x 1,0 mm	414
02631 00005	MG 1014 BI	132 x 9,8 x 1,0 mm	414
02651 00005	MG 12 BI	76,5 x 7,8 x 1,0 mm	414
02570 00005	MG 32 BI	132 x 9,8 x 1,0 mm	415
02760 00005	K 14	100 x 7,8 x 1,0 mm	415
02760 00099	K 14	100 x 7,8 x 1,0 mm	415
02780 00005	K 24	100 x 7,8 x 1,0 mm	415
02805 00005	STL 007 BI	133 x 9,6 x 1,27 mm	415
02675 00005	MG 52 BI	180 x 9,8 x 1,0 mm	415
02761 00005	K 14 BI	100 x 7,8 x 1,0 mm	415
02800 00005	ST 006 BI	100 x 9,8 x 1,0 mm	415
02595 00002	HM 33	116 x 10 x 1,25 mm	415
02851 00005	HWL 54	180 x 9,7 x 1,27 mm	416
02885 00003	D 2	79 x 8,8 x 2,3 mm	416
02890 00001	HM 100	100 x 7,8 x 1,9 mm	416
02850 00005	HWL 100	100 x 9,7 x 1,27 mm	416
02880 00003	D 1	79 x 8,8 x 2,3 mm	416
02555 00002	HM 11	79 x 8,8 x 2,3 mm	416
02895 00001	HM 132	132 x 7,8 x 1,9 mm	416
02900 00001	DT 1	100 x 9 x 1,3 mm	417
02860 00005	SET 2000	1	417
02967 00010		1	417
02905 00001	DT 2	100 x 9 x 1,3 mm	417
02966 00010		1	417
02968 00010		1	417
02991 00000	02991 00000	-	418
02992 00000	02992 00000	-	418
02993 00000	02993 00000	-	418
04110 00005	UHC 12	100 x 7,8 x 1,27 mm	419
04114 00005	UHC 12 R	100 x 7,8 x 1,27 mm	419
04280 00005	UHG 13	100 x 7,8 x 1,0 mm	419
04360 00005	UHGS 14	100 x 7,8 x 1,27 mm	419
04113 00005	UHC 12 K	69,5 x 6,3 x 1,25 mm	419
04170 00005	UHC 14	100 x 7,8 x 1,27 mm	419
04550 00005	UMG 11	76,5 x 7,8 x 1,0 mm	420
04571 00005	UMG 31 BI	132 x 9,8 x 1,0 mm	420
04651 00005	UMG 12 BI	76,5 x 7,8 x 1,0 mm	420
04551 00005	UMG 11 BI	76,5 x 7,8 x 1,0 mm	420
04650 00005	UMG 12	76,5 x 7,8 x 1,0 mm	420
04761 00005	UK 14 BI	100 x 7,8 x 1,0 mm	420
06130 00005	37	90 x 6,0 x 1,27 mm	421
06550 00005	35	76,5 x 7,8 x 1,0 mm	421
06571 00005	77 BI	132 x 9,8 x 1,0 mm	421
06651 00005	36 BI	76,5 x 7,9 x 1,0 mm	421
06160 00005	38	90 x 6,0 x 1,27 mm	421
06551 00005	35 BI	76,5 x 7,8 x 1,0 mm	421
06650 00005	36	76,5 x 7,4 x 1,0 mm	421
06761 00005	39 BI	100 x 7,8 x 1,0 mm	421
08066 00000	66	200 x 25 x 1,5 mm	422
08063 00000	63	300 x 25 x 1,5 mm	422
08164 00000	64/1	400 x 25 x 1,5 mm	422
08172 00000	72/1	500 x 25 x 1,5 mm	422
08272 00000	72/2	500 x 25 x 2,0 mm	422
08069 00000	69	530 x 28 x 1,5 mm	422
08073 00000	73	600 x 28 x 2,0 mm	422
00500 00000	ESP	60 ml	422
08081 00000	81	700 x 28 x 2,0 mm	422
08040 00000	40	530 x 25 x 1,5 mm	422
12115 00005	3020/150	150 x 19 x 1,05 mm	426
12222 00005	3021/225	225 x 19 x 1,27 mm	426
12240 00005	3021/400	400 x 19 x 1,27 mm	426
12280 00005	3021/300 BI	300 x 19 x 1,27 mm	426
12215 00005	3021/150	150 x 19 x 1,27 mm	426
12215 00020	3021/150	150 x 19 x 1,27 mm	426
12215 00099	3021/150	150 x 19 x 1,27 mm	426
12230 00005	3021/300	300 x 19 x 1,27 mm	426
12265 00005	3021/150 BI	150 x 19 x 1,27 mm	426
12272 00005	3021/225 BI	225 x 19 x 1,27 mm	426
12272 00020	3021/225 BI	225 x 19 x 1,27 mm	426
12315 00005	3022/150	150 x 12 x 1,27 mm	427
12422 00005	3023/240	240 x 19 x 1,27 mm	427
12430 00005	3025/300	300 x 19 x 1,05 mm	427
12615 00005	3019/150	150 x 19 x 1,05 mm	427
12615 00020	3019/150	150 x 19 x 1,05 mm	427
12400 00005	3023/150	150 x 19 x 1,8 mm	427
12415 00005	3025/150	150 x 19 x 1,05 mm	427
12524 00005	3029/240	240 x 19 x 1,27 mm	427
12524 00020	3029/240	240 x 19 x 1,27 mm	427
12524 00099	3029/240	240 x 19 x 1,27 mm	427
12622 00005	3019/225	225 x 19 x 1,05 mm	427
12675 00005	3019/225 PC	225 x 19 x 1,05 mm	428
12675 00020	3019/225 PC	225 x 19 x 1,05 mm	428
12722 00005	3030/225	225 x 19 x 1,27 mm	428
12774 00005	3035/240	240 x 19 x 1,27 mm	428
13821 00005	46 C/210	210 x 19 x 1,27 mm	428
12665 00005	3019/150 bi	150 x 19 x 0,9 mm	428
12730 00005	3030/300	300 x 19 x 1,27 mm	428
13815 00005	46 C/150	150 x 19 x 1,27 mm	428
12830 00003	3027/230	230 x 35 x 0,6 mm	428
12920 00003	3028/230	230 x 35 x 0,6 mm	429
12820 00002	3026/275	275 x 34 x 1,6 mm	429
12955 00010	12955 00010	10 piese	429
12955 00003	12955 00003	3 piese	429
12957 00003	12957 00003	3 piese	429
13515 00005	1014 C/150	150 x 19 x 0,9 mm	429
13515 00020	1014 C/150	150 x 19 x 0,9 mm	429
13515 00099	1014 C/150	150 x 19 x 0,9 mm	429
13520 00005	1014 C/200	200 x 19 x 0,9 mm	430
13520 00020	1014 C/200	200 x 19 x 0,9 mm	430
13528 00005	1014 C/280	280 x 19 x 0,9 mm	430
13565 00005	1014 CD/150	150 x 19 x 1,27 mm	430
13572 00005	1014 CD/225	300 x 19 x 1,27 mm	430
13522 00005	1014 C/225	225 x 19 x 0,9 mm	430
13521 00000	1014 C/210 RS	225 x 19 x 1,27 mm	430
13570 00005	1014 CD/200	225 x 19 x 1,27 mm	430
13615 00005	810 C/150	150 x 19 x 0,9 mm	430
13622 00005	810 C/225	225 x 19 x 0,9 mm	431
13765 00005	58 C/150	150 x 19 x 1,27 mm	431
13780 00005	58 C/300	300 x 19 x 1,27 mm	431
14115 00005	3007/150	150 x 19 x 0,9 mm	431
13650 00005	810 F	150 x 19 x 1,27 mm	431
13772 00005	58 C/225	225 x 19 x 1,27 mm	431
14960 00005	3059/150	150 x 19 x 0,9 mm	431
14210 00005	3015/100	100 x 19 x 0,9 mm	431
14215 00005	3015/150	150 x 19 x 0,9 mm	432
14450 00005	3017/90	90 x 9 x 0,9 mm	432
14415 00005	3014/150	150 x 19 x 0,9 mm	432
14415 00020	3014/150	150 x 19 x 0,9 mm	432
14415 00099	3014/150	150 x 19 x 0,9 mm	432
14425 00005	3014/250	250 x 19 x 0,9 mm	432
14425 00099	3014/250	250 x 19 x 0,9 mm	432
14220 00005	3015/200	200 x 19 x 0,9 mm	432
14410 00005	3014/100	100 x 19 x 0,9 mm	432
14420 00005	3014/200	200 x 19 x 0,9 mm	432
14420 00020	3014/200	200 x 19 x 0,9 mm	432
14420 00099	3014/200	200 x 19 x 0,9 mm	432
14515 00005	3014/150 PC	150 x 19 x 0,9 mm	432
14515 00020	3014/150 PC	150 x 19 x 0,9 mm	432
14522 00005	3014/225 PC	225 x 19 x 0,9 mm	433
14522 00020	3014/225 PC	225 x 19 x 0,9 mm	433
14615 00005	3013/150	150 x 19 x 0,9 mm	433
14615 00020	3013/150	150 x 19 x 0,9 mm	433
14615 00099	3013/150	150 x 19 x 0,9 mm	433
14625 00005	3013/250	250 x 19 x 0,9 mm	433
14625 00099	3013/250	250 x 19 x 0,9 mm	433
14722 00005	3013/225 PC	225 x 19 x 0,9 mm	433
14722 00020	3013/225 PC	225 x 19 x 0,9 mm	433
14610 00005	3013/100	100 x 19 x 0,9 mm	433
14620 00005	3013/200	200 x 19 x 0,9 mm	433
14620 00020	3013/200	200 x 19 x 0,9 mm	433
14620 00099	3013/200	200 x 19 x 0,9 mm	433
14715 00005	3013/150 PC	150 x 19 x 0,9 mm	433
14715 00020	3013/150 PC	150 x 19 x 0,9 mm	433
14815 00005	3018/150	150 x 19 x 0,9 mm	433
14815 00020	3018/150	150 x 19 x 0,9 mm	433
14815 00099	3018/150	150 x 19 x 0,9 mm	433
14820 00005	3018/200	200 x 19 x 0,9 mm	434
14820 00020	3018/200	200 x 19 x 0,9 mm	434
14820 00099	3018/200	200 x 19 x 0,9 mm	434
14821 00000	3018/210 RS	210 x 19 x 0,9 mm	434
14322 00005	3016-225 Twin Cut	225 x 19 x 0,9 mm	434
14322 00020	3016-225 Twin Cut	225 x 19 x 0,9 mm	434
14322 00099	3016-225 Twin Cut	225 x 19 x 0,9 mm	434
15915 00005	3056-150	150 x 25 x 0,9 mm	434
15915 00020	3056-150	150 x 25 x 0,9 mm	434
15915 00099	3056-150	150 x 25 x 0,9 mm	434
14828 00005	3018/280	280 x 19 x 0,9 mm	434
14828 00099	3018/280	280 x 19 x 0,9 mm	434
14315 00005	3016/150 Twin Cut	150 x 19 x 0,9 mm	434
14315 00020	3016/150 Twin Cut	150 x 19 x 0,9 mm	434
14315 00099	3016/150 Twin Cut	150 x 19 x 0,9 mm	434
14328 0000	3016-280 Twin Cut	280 x 19 x 0,9 mm	434
15922 00005	3056-225	225 x 25 x 0,9 mm	434
15922 00020	3056-225	225 x 25 x 0,9 mm	434
15922 00099	3056-225	225 x 25 x 0,9 mm	434
15930 00005	3056-300	300 x 25 x 0,9 mm	435
15930 00099	3056-300	300 x 25 x 0,9 mm	435
15222 00005	3057-225	225 x 25 x 0,9 mm	435
15222 00020	3057-225	225 x 25 x 0,9 mm	435
15515 00003	3050/150	150 x 22 x 1,57 mm	435
15515 00025	3050/150	150 x 22 x 1,57 mm	435
15515 00099	3050/150	150 x 22 x 1,57 mm	435
15530 00003	3050/300	300 x 22 x 1,57 mm	435
15530 00025	3050/300	300 x 22 x 1,57 mm	435
15530 00099	3050/300	300 x 22 x 1,57 mm	435
15215 00005	3057-150	150 x 25 x 0,9 mm	435
15215 00020	3057-150	150 x 25 x 0,9 mm	435
15230 00005	3057-300	300 x 25 x 0,9 mm	435
15230 00020	3057-300	300 x 25 x 0,9 mm	435
15522 00003	3050/225	225 x 22 x 1,57 mm	435
15522 00025	3050/225	225 x 22 x 1,57 mm	435
15522 00099	3050/225	225 x 22 x 1,57 mm	435
15715 00003	3055/150	150 x 22 x 1,57 mm	435
15715 00025	3055/150	150 x 22 x 1,57 mm	436
15722 00003	3055/225	225 x 22 x 1,57 mm	436
15722 00025	3055/225	225 x 22 x 1,57 mm	436
15622 00003	3058/225	225 x 22 x 1,57 mm	436
15622 00025	3058/225	225 x 22 x 1,57 mm	436
16115 00001	3040/150 HM	150 x 19 x 1,3 mm	436
16222 00001	3041/225 HM	225 x 19 x 1,3 mm	436
15730 00003	3055/300	300 x 22 x 1,57 mm	436
15630 00003	3058/300	300 x 22 x 1,57 mm	436
15630 00025	3058/300	300 x 22 x 1,57 mm	436
16130 00001	3040/300 HM	300 x 19 x 1,3 mm	436
16230 00001	3041/300 HM	300 x 19 x 1,3 mm	436
16540 00001	3041/400 HM	400 x 19 x 1,3 mm	437
16423 00001	3043/235 HM	215 x 20 x 1,2 mm	437
16431 00001	3043/300H HM	300 x 50 x 1,2 mm	437
16523 00001	3044/235 HM	215 x 20 x 1,1 mm	437
16310 00002	3042/115 HM	115 x 19 x 1,25 mm	437
16430 00001	3043/300 HM	300 x 20 x 1,2 mm	437
16450 00001	3043/450H HM	450 x 50 x 1,2 mm	437
16530 00001	3044/300H HM	300 x 50 x 1,1 mm	437
16240 00001	3044/400 HM	400 x 19 x 1,3 mm	438
16820 00002	D 12/200	200 x 19 x 1,05 mm	438
16930 00001	INOX 300	300 x 25 x 1,25 mm	438
16022 00002	RWM 225	225 x 19 x 1,27 mm	438
16815 00002	D 12/150	150 x 19 x 1,05 mm	438
16823 00002	D 12/230	230 x 19 x 1,05 mm	438
16940 00001	INOX 400	400 x 25 x 1,25 mm	438
16030 00002	RWM 300	300 x 19 x 1,27 mm	438
16045 00002	RWM 450	450 x 19 x 1,27 mm	439
16920 00001	DT 200	200 x 19 x 1,05 mm	439
18520 00005	006/200 BI	200 x 19 x 0,9 mm	439
18620 00005	007/200 BI	200 x 19 x 0,9 mm	439
16050 00001	RWM 500 DS	400 x 19 x 1,27 mm	439
18515 00005	006/150 BI	150 x 19 x 0,9 mm	439
18615 00005	007/150 BI	150 x 19 x 0,9 mm	439
18628 00005	007/280 BI	280 x 19 x 0,9 mm	439
18822 00005	007 DS/240 BI	240 x 19 x 0,9 mm	440
14699 00000	14699 00000	69 piese	440
18720 00005	007 D/200 bi	200 x 19 x 1,27 mm	440
50605 00000	Multi-Tool	1	440
50606 00001	50606 00001	3 piese	441
50610 00000	Multi-Tool 1 (PH/PZ)	9 piese	441
50611 00000	Multi-Tool 2 (TORX®)	3 piese	441
20014 00005	L 2014	95 x 12,3 x 0,63 mm	441
20018 00005	L 2018	95 x 12,3 x 0,63 mm	441
20024 00005	L 2024	95 x 12,3 x 0,63 mm	441
20032 00005	L 2032	95 x 12,3 x 0,63 mm	441
20114 00005	LS 2014	95 x 12,3 x 0,63 mm	441
20118 00005	LS 2018	95 x 12,3 x 0,63 mm	442
20124 00005	LS 2024	95 x 12,3 x 0,63 mm	442
20132 00005	LS 2032	95 x 12,3 x 0,63 mm	442
20218 00005	LSK 2018	72 x 12,3 x 0,63 mm	442
20224 00005	LSK 2024	72 x 12,3 x 0,63 mm	442
20232 00005	LSK 2032	72 x 12,3 x 0,63 mm	442
20364 00005	LV 2014	95 x 12,3 x 0,63 mm	442
20374 00005	LV 2024	95 x 12,3 x 0,63 mm	442
20382 00005	LV 2032	95 x 12,3 x 0,63 mm	442
BC-3013-18-P	8% COBALT HSS BIMETAL	300	451
BC-3013-24-P	8% COBALT HSS BIMETAL	300	451

BC-3013-32-P	8% COBALT HSS BIMETAL	300	451
B-3013-18-P	HSS BIMETAL	300	451
B-3013-24-P	HSS BIMETAL	300	451
B-3013-32-P	HSS BIMETAL	300	451
B-3013-PR-P	HSS BIMETAL PROGRESSIVE	300	451
B-3013-VA-P	HSS BIMETAL VARIABLE	300	451
FC-3013-18-P	3% COBALT HSS FLEXIBLE	300	451
FC-3013-24-P	3% COBALT HSS FLEXIBLE	300	451
FC-3013-32-P	3% COBALT HSS FLEXIBLE	300	451
F-3013-18-P	HSS FLEXIBLE	300	451
F-3013-24-P	HSS FLEXIBLE	300	451
F-3013-32-P	HSS FLEXIBLE	300	451
A-3025-24-P	HSS ALL HARD	300	452
HHS2-P	HHS2-P	300	452
900591	7751.1	300	452
900594	7751.1/5	300	452
3001256324	ALL HARD HIGH SPEED STEEL	300	452
3001256324B	BIMETAL HIGH SPEED STEEL	300	452
621532	750.1B	300	453
R-3013-32-P	MYROS SPECIAL	300	453
R-3020-18-P	MYROS SPECIAL	300	453
R-3020-24-P	MYROS SPECIAL	300	453
R-3020-32-P	MYROS SPECIAL	300	453
R-3025-24-P	MYROS SPECIAL	300	453
K-3020-24/14P	MYROS SPECIAL KOMBI	300	453
K-3020-24/8-P	MYROS SPECIAL KOMBI	300	453
K-3025-24/8-P	MYROS SPECIAL KOMBI	300	453
86012/car	Tungsten Carbide	300	453
623099	750.1CAR	300	453
500386	TAIFUN® 50	0,82x0,36	454
500786	TAIFUN® 50	1,13x0,45	454
510186	TAIFUN® 51	0,76x0,34	454
510386	TAIFUN® 51	0,90x0,38	454
510586	TAIFUN® 51	0,97x0,40	454
510136	TAIFUN® 51	0,76x0,34	454
510336	TAIFUN® 51	0,90x0,38	454
510536	TAIFUN® 51	0,97x0,40	454
520186	GOLIATH® 52	0,67x0,32	454
520386	GOLIATH® 52	0,28x0,36	454
520586	GOLIATH® 52	0,97x0,40	454
520786	GOLIATH® 52	1,13x0,45	454
800156	ZARSA® 80	0,90	454
800586	ZARSA® 80	1,30	454
E520013	BLITZ®	0,85x0,35	454
E520017	BLITZ®	1,20x0,48	454
E520203	BLITZ®	0,85x0,35	454
E520207	BLITZ®	1,20x0,48	454
E524011	TORNADO®	0,90	454
E524013	TORNADO®	1,30	454
593970	593970	24 panze	454
562086	TAIFUN® 56	0,62x0,29	455
560286	TAIFUN® 56	0,82x0,36	455
560786	TAIFUN® 56	1,25x0,45	455
582086	ELFE® 58	0,62x0,29	455
580386	ELFE® 58	0,82x0,36	455
580786	ELFE® 58	1,13x0,45	455
810086	ZARSA® 81	0,85	455
810386	ZARSA® 81	1,10	455
810486	ZARSA® 81	1,30	455
592970	592970	24 panze	455
310121	PUK® 310	150	455
312121	PUK® 312	150	455
313121	PUK® 313	150	455
390170	390170	12 panze	455
610484	1200/1	115	456
610485	1200/1	125	456
610486	1200/1	180	456
610487	1200/1	230	456
610488	1200/2	115	456
610489	1200/2	125	456
610490	1200/2	180	456
610491	1200/2	230	456
610492	1202/2	115	456
610493	1202/2	115	456
610494	1202/2	125	456
610495	1202/2	125	456
610496	1202/2	180	456
610499	1202/2	230	456
610539	1216	115	456
610540	1216	115	456
610541	1216	115	456
610544	1216	125	456
610545	1216	125	456
610546	1216	125	456
610518	1210	115	456
610519	1210	115	456
610520	1210	125	456
610521	1210	125	456
610522	1210	180	456
610523	1210	230	456
8294.3	UNIVERSAL BASIC	115	457
8294.23	UNIVERSAL BASIC	125	457
8294.37	UNIVERSAL BASIC	180	457
8294.9	UNIVERSAL BASIC	230	457
1500.49	UNIVERSAL BASIC	300	457
8299.5	LASER PROFESIONAL	115	457
8299.19	LASER PROFESIONAL	125	457
1500.28	LASER PROFESIONAL	180	457
8299.9	LASER PROFESIONAL	230	457
8294.1	TURBO BASIC	115	457
8294.35	TURBO BASIC	125	457
8294.36	TURBO BASIC	180	457
8294.2	TURBO BASIC	230	457
40.22	CORTA TODO	115	457
8294.44	CERAMICA BANDA CONTINUA	115	457
8294.55	CERAMICA BANDA CONTINUA	125	457
8294.53	CERAMICA BANDA CONTINUA	180	457
8294.56	CERAMICA BANDA CONTINUA	200	457
8294.57	CERAMICA BANDA CONTINUA	230	457
14.239	PORCELANICO TURBO EXTRA FINO PLATINUM	115	457
14.240	PORCELANICO TURBO EXTRA FINO PLATINUM	125	457
1500.104	PORCELANICO TURBO EXTRA FINO PLATINUM	180	457
1500.128	PORCELANICO TURBO EXTRA FINO PLATINUM	200	457
8294.17	PORCELANICO TURBO EXTRA FINO PLATINUM	230	457
1500.1	PORCELANICO TURBO EXTRA FINO PLATINUM	250	457
8294.5	TURBO PROFESIONAL	115 mm	458
8294.38	TURBO PROFESIONAL	125 mm	458
8294.39	TURBO PROFESIONAL	180 mm	458
8294.6	TURBO PROFESIONAL	230 mm	458
14.20	TURBO PLUS REFORZADO (LÁGRIMAS)	115 mm	458
14.36	TURBO PLUS REFORZADO (LÁGRIMAS)	125 mm	458
14,350	TURBO PLUS REFORZADO (LÁGRIMAS)	150 mm	458
14.62	TURBO PLUS REFORZADO (LÁGRIMAS)	180 mm	458
14.93	TURBO PLUS REFORZADO (LÁGRIMAS)	230 mm	458
14.379	FÓRMULA INTER-COOLER H12	115 mm	458
14.380	FÓRMULA INTER-COOLER H12	125 mm	458
14.81	FÓRMULA INTER-COOLER H12	180 mm	458
14.337	FÓRMULA INTER-COOLER H12	230 mm	458
14.241	HURACÁN	115 mm	458
14.375	HURACÁN	125 mm	458
100.1165	HURACÁN	230 mm	458
100.1771	HURACÁN SILENCIOSO	230 mm	458
14.416	TORNADO	115 mm	458
14.417	TORNADO	125 mm	458
14.338	TORNADO	230 mm	458
8299.26	MÁRMOL ELECTRODEPOSITADO	115 mm	459
8299.27	MÁRMOL ELECTRODEPOSITADO	125 mm	459
36.41	MÁRMOL ELECTRODEPOSITADO	180 mm	459
8110.30	MÁRMOL ELECTRODEPOSITADO	230 mm	459
8299.1	DISC OALA SEGMENTAT DIN ALUMINIU	100 GRC 30-40	459
8299.8	DISC OALA SEGMENTAT DIN ALUMINIU	125 SPEED	459
8294.41	DISC OALA DUBLU SEGMENTAT	100	459
14.30	DISC OALA DUBLU SEGMENTAT	125	459
8294.65	DISC OALA DUBLU SEGMENTAT	180	459
14.301	TURBO HURACÁN	115 mm	459
14.302	TURBO HURACÁN	125 mm	459
14.304	TURBO HURACÁN	230 mm	459
100.34	ASFALTO	350	459
100.955	ASFALTO	400	459
100.88	ASFALTO	450	459
100.847	HORMIGON CURADO	300	459
100.936	HORMIGON CURADO	350	459
100.961	HORMIGON CURADO	450	459

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Cod produs	Articol	Dimensiune	Pag.
1.2082	BL 50 CK	3,6 V	462
1.2106	PBL 1422 PK	14,4 V	462
1.1524	PBL 2184 PK / 4.0 Ah	18 V	462
12.582	12.582	14,4 V	463
12.583	12.583	14,4 V	463
12.530	12.530	18 V	463
12.531	12.531	18 V	463
12.547	12.547	18 V	463
1.6008	384 B	600 W	463
12.517	SG 43 B	68 mm	463
1.5449	TM 750 AK	750 W	464
1.1737	TM 950 AK (IKF)	950 W	464
1.1735	TM 1100	1100W	464
1.1746	HD 26 BK	800 W	464
1.1560	TD 800 K	800 W	465
1.1967	HD 27 CK	810 W	465
1.1562	HD 5 CK	950 W	465
1.1741	HD 50 BK	1200 W	466
1.1449	MD 15 K	1750 W	466
1.1474	M 1200 C	1200W	466
12.445	12.445	Ø100 mm	466
12.233	12.233	Ø140 mm	466
1.1548	DM 1450	1450 W	467
12.537	12.537	Ø140/114 mm	467
1.834	SU 650 EDK	2000 W	467
220.163	LP 700 E	Φ 225 mm	467
12.470	LP 700 E	Φ 225 mm	467
12.467	LP 700 E	Φ 225 mm	467
12.468	LP 700 E	Φ 225 mmΦ	467
12.469	LP 700 E	225 mm	467
1.1450	LP 700 E	710 W	468
1.1939	SAB 800 CR	800 W	468
1.936	SAB 1301 E	1200 W	468
1.1970	SAB 1601 CS	1400 W	468
1.1705	SD 27 CE	650 W	468
1.1640	SAB 1011 B	1000 W	469
1.1816	AGR 24-23 C AL	2400 W	469
1.1771	AGR 21-230	2100 W	469
1.1689	SAB 26-23 AL	2600 W	469
12.300	BA 115	115 mm	469
12.301	BA 230	230 mm	469
12.465	12.465	125 mm	470
2.196	Accesorii polizoare unghiulare	Φ 115x22.2 mm	470
2.197	Accesorii polizoare unghiulare	Φ 125x22.2 mm	470
2.198	Accesorii polizoare unghiulare	Φ 230x22.2 mm	470
1.1254	CD 125	1500 W	470
1.6007	CD 180 K	1800 W	470
1.1567	MULTI TOOL PRO 300	300 W	470
12.548	12.548 - MULTI TOOL PRO 300 Accesorii	32x40x90 mm	471
12.549	12.549 - MULTI TOOL PRO 300 Accesorii	32x40x90 mm	471
12.553	12.553 - MULTI TOOL PRO 300 Accesorii	20x34x80 mm	471
12.550	12.550 - MULTI TOOL PRO 300 Accesorii	Φ 88 mm	471

12.551	12.551 - MULTI TOOL PRO 300 Accesorii	Φ 88 mm	471
12.554	12.554 - MULTI TOOL PRO 300 Accesorii	Φ 88 mm	471
12.552	12.552 - MULTI TOOL PRO 300 Accesorii	52x50x95 mm	471
12.555	12.555 - MULTI TOOL PRO 300 Accesorii	78x78x78 mm	471
12.556	12.556 - MULTI TOOL PRO 300 Accesorii	93x93x93 mm	471
12.557	12.557 - MULTI TOOL PRO 300 Accesorii	93x93x93 mm	471
12.558	12.558 - MULTI TOOL PRO 300 Accesorii		472
12.559	12.559 - MULTI TOOL PRO 300 Accesorii		472
1.1543	CP 190 C	1600 W	472
1.5916	CP 236	2000 W	472
1.1726	CPT 3000 E	1400 W	472
1.1565	CP 125	1400 W	473
1.1931	LU 260 CE	1200 W	473
1.2010	LS 1200 B	1200 W	473
1.5977	CM 230 K	1700 W	473
1.1368	LT 1401 EK	1400 W	473
8180.150	LS 1200 B - Accesorii	rola abraziva, granulatie fina	474
8180.151	LS 1200 B - Accesorii	rola abraziva, granulatie grosiera	474
8180.152	LS 1200 B - Accesorii	rola lamelara, granulatie mixta	474
8180.153	LS 1200 B - Accesorii	rola lamelara, granulatie grosiera	474
1.638	RO 150 E	450 W	474
1.1457	S 90 PE	750 W	474
1.5936	S 110 PE	470 W	474
1.2002	SS 280 P	1200 W	474
1.5659	LOM 130 PD	170 W	475
1.640	LOM 185	200 W	475
1.119	LEV 120	400 W	475
1.5636	LEN 610	1200 W	475
1.5565	P 910	910 W	475
12.195	P 910 - Accesorii	82 mm	475
1.1324	BJ 120	860 W	476
12.286	BJ 120 - Accesorii	100x3,5x22 mm Z6	476
11.2493	BJ 120 - Accesorii	Gr. 20	476
11.2494	BJ 120 - Accesorii	Gr. 10	476
11.2495	BJ 120 - Accesorii	Gr. 0	476
1.653	PR 6	550 W	476
1.1310	PR 10 EK	1800 W	476
1.1690	VAC 2030	1200 W	477
1.1198	VAC 2050 C	1200 W	477
1.1140	VAC 70 B	750 W	477
1.5975	T 88	790 mm	477
1.1377	SC 250 W PRO	1500 W	478
1.1676	SCR 255 CW	1800 W	478
1.90	SC 391 W	1600 W	478
1.1933	SCR 315 W	1800 W	478
1.1976	TV 509 D	2500 W	479
1.1460	SN 1435 B	1/2 CP	479
5.511	TV 509 C - Accesorii	355x3,0x25,4 mm	479
1.5882	SN 1735	2000 W	479
1.1051	MULTI RAZER 85 K	600 W	480
1.651	MULTI DRILL 130	130 W	480
2.313	E 150 B	150 W	480
2.297	EP 200 B	350 W	480
2.404	ECA 150 B	350 W	481
2.403	ECP 150 B	350 W	481
1.1072	BC 1200 D	1200 W	481
2.405	ECL 150 B	350 W	481
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1.738	EPG 300	400 W	482
1.2008	HL 105 B	1400 W	482
1.1996	HL 2000	2000 W	482
1.1552	HL 3000 IND	3000 W	482
1.1365	PLUS 140 B GE K	220 V	483
2.286	POTENZA 160 GE	220 V	483
2.287	POTENZA 200 GE	220 V	484
1.1032	PROGRESS 1700L	220 V	484
1.1363	PROGRESS 2100 PFC	220 V	485
1.739	MIG 200 MULTI	220 V	485
1.1918	TIG 200 HF P	220 V	486
1.741	TIG AC/DC 200 HF PULSED	220 V	486
1.1059	AS-X	110x90x9 mm	487

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615514	1545	8 - 17 / 14	491
627566	1532	3/8"	491
615515	1555	10 - 24 / 14	491
615320	1541	3/8"	492
615319	1551	1/2"	492
627568	1563	1/2"	492
627567	1552	1/2"	492
627569	1564	1/2"	493
615322	1561	1/2"	493
615516	1565	10 - 27 / 20	493
627570	1566	1/2"	493
615321	1562	1/2"	494
615324	1571	3/4"	494
617161	1575	7	494
627571	1573	3/4"	494
615325	1591	1"	495
615326	1592	1"	495
617691	1597	1.1/2"	495
617690	1596	1.1/2"	495
617714	1514	170	496
617715	1514	225	496
617716	1514.1	69	496
617717	1514.2	351	496
617718	1514A1	182	496
617719	1514A2	180	496
617720	1514A3	180	496
617721	1514A4	180	496
617722	1514A5	190	496
617723	1514A6	178	496
619964	1514PB	7	497
617733	1510	2,5	497
617713	1510	5	497
617731	1516	155	498
617732	1516A	162	498
617729	1517S	375	498
617730	1518	230	498
617726	1515	190	499
617767	1508A	260	499
617727	1515H	220	499
617768	1508B	420	499
617735	1500	90	499
617738	1500C	71	499
617736	1501	150	499
617739	1501C	175	500
617737	1502	150	500
621473	1503	190	500
617741	1500PG	63	500
617742	1501PG	16	500
617743	1505	9	500
617744	1505	9	500
617745	1505	9	500
617746	1505	12	500
617747	1505	12	500
617748	1505	12	500
617788	1506PZ	R1/4"	500
617789	1506PZ	R3/8"	500
617790	1506PZ	R1/2"	500
617793	1506KZ7	R1/4"	500
617794	1506KZ7	R3/8"	500
621452	1506KZ10	R3/8"	500
621453	1506KZ10	R1/2"	500
621454	1506KZ10	R3/4"	500
617795	1506KN7	R1/4"	500
617796	1506KN7	R3/8"	500
617797	1507Z7	R1/4"	501
617798	1507Z7	R3/8"	501
618483	1507Z7	R1/2"	501
616831	650.1/6	250	501
616832	650.2/6	250	501
621455	1507Z10	R3/8"	501
621456	1507Z10	R1/2"	501
621457	1507Z10	R3/4"	501
623315	OP1.4/2	110	501

Capitol 17

Cod produs	Articol	Dimensiune	Pag.
HD-0650	HD-0650	6-50 mm²	504
HD-06120	HD-06120	10-120 mm²	504
HD-25150	HD-25150	25-150 mm²	504
HD-BGD3	HD-BGD3		504
HD-OD3	HD-OD3		504
KCV-50	KCV-50	Φ 50 mm	504
KCV-54	KCV-54	Φ 54 mm	504
KCV-54AC	KCV-54AC	Φ 54 mm	505
LEC-U27	LEC-U27	400 mm²	505
KCV-65	KCV-65	Φ 65 mm	505
LEC-32	LEC-32	400 mm²	505
LEC-S45	LEC-S45	Φ 45 mm	505
LEC-C85	LEC-C85	Φ 85 mm	506
HYSC-24	HYSC-24	Φ 45 mm	506
HYSC-32	HYSC-32	Φ 32 mm	506
HYSC-45	HYSC-45	Φ 45 mm	506
HYCC-050	HYCC-050	Φ 50 mm	506
HYCC-P85	HYCC-P85	Φ 85 mm	506
TC-085	TC-085	Φ 85 mm	507
HYSC-20HE	HYSC-20HE	Φ 20 mm	507
HYSC-32HE	HYSC-32HE	Φ 32 mm	507
HYCC-35HE	HYCC-35HE	Φ 35 mm	507
HYSC-55HE	HYSC-55HE	Φ 55 mm	507
HYCC-P85HE	HYCC-P85HE	Φ 85 mm	507
TC-085HE	TC-085HE	Φ 85 mm	508
HYCC-P100HE	HYCC-P100HE	Φ 100 mm	508
HYCC-105HE	HYCC-105HE	Φ 105 mm	508
TC-120HE	TC-120HE	Φ 120 mm	508
9H-150	9H-150	150 mm²	508
HYCP-185	HYCP-185	185 mm²	508
HYCP-240	HYCP-240	240 mm²	509
PH-240	PH-240	240 mm²	509
UCP-240	UCP-240	240 mm²	509
UCP-2712	UCP-2712	400 mm²	509
UB-412	UB-412	400 mm²	509
HYCP-4413	HYCP-4413	400 mm²	509
UB-412HE	UB-412HE	400 mm²	510
HYCP-4413HE	HYCP-4413HE	400 mm²	510
HYCP-630HE	HYCP-630HE	630 mm²	510
HYCP-15THE	HYCP-15THE	400 mm²	510
HYCP-451000HE	HYCP-451000HE	1000 mm²	510
HYCP-60ST	HYCP-60ST	60 mm OD	510
HYCP-60D	HYCP-60D	60 mm OD	511
HYCP-100ST	HYCP-100ST	60 mm OD	511
200W	200W	86 mm OD	511
DRCP-559140	DRCP-559140	8,8x5 mm	511
PNST-10	PNST-10	1/2"-2"/ 6 preducele	511
PN-052	PN-052	1/2"-2"/ 6 preducele	512
SH-70A	SH-70A	Φ 20.5 mm	512
HYBC-120	HYBC-120	120x12 mm	512
HYBN-120	HYBN-120	120x12 mm	512
DBBN-120	DBBN-120	120x12 mm	512
HYBN-160	HYBN-160	160x12 mm	512
PB-10N	PB-10N	90°	513
HYNC-1319	HYNC	M6 - M12	513
HYNC-1924	HYNC	M12 - M16	513
HYNC-2432	HYNC	M16 - M22	513
HYNC-3241	HYNC	M22 - M27	513
HYNC-4150	HYNC	M27 - M32	513
HYNC-5060	HYNC	M33 - M39	513
HYNC-6075	HYNC	M39 - M48	513
EP-30S	EP-30S	2,6 l/min	513
HP-700A	HP-700A	700 bar	513
HYP-700FT	HYP-700FT	700 bar	513
HP-180N	HP-180N	590 bar	513
HYFS-8	HYFS-8	81 mm	514
MFS-8	MFS-8	81 mm	514

Capitol 18

Cod produs	Articol	Dimensiune	Pag.
623125	2301SOS4	7	518
623106	vl2301SOS4	374 x 364 x 30	518
623129	2301SOS8	1	518
623110	vl2301SOS8	188 x 364 x 30	518
619250	2077/2BI	235	518
619251	2078/2BI	230	519
619253	2080/2BI	190	519
619252	2079/2BI	206	519
619254	2081/3	285	520
619256	2082.1	305	520
619255	2082/3	330	520
619742	2084	240	521
619741	2083	170	521
619883	2085	510	521
619728	2086	150	521
619929	2087	500	521
619257	1976/2	60	522
620237	2091	250	522
627201	2091	170	522
619266	1978/2	120	522
620949	1977/6	27	523
620950	1977/6	32	523
620951	1977/6	36	523
619258	1977/6	66	523
619259	1977/6	65	523

619260	1977/6	74	523
619261	1977/6	75 - 77	523
619262	1977/6	76	523
620952	1977/6	76	523
619263	1977/6	86	523
619264	1977/6	86	523
619265	1977/6	96	523
622702	1977PB12	12	523
620234	2089/2BI	230	524
605112	175/2	8 x 10	524
601024	205/2	220	524
602841	205.1	62	524
601025	206/2	220	524
620938	206.1	500	524
621403	1980	315	524
619229	1931	325	525
619232	1934	325	525
619230	1932	325	525
619226	1900	6	525
619234	1936	325	525
619227	1901	7	525
619267	1940/2BI	230	526
621477	1946	350	526
621478	1946.1	350	526
619268	1940.1/2BI	230	526
619269	1940.2/2BI	230	526
601688	631	6 - 12	526
601689	631	6 - 24	526
619856	631B	6 - 24	526
619288	2028/2P	250	527
619740	1944/6	925	527
619737	2033/2	151	527
619738	2034/2BI	325	528
608815	300/6B	500	528
608816	300/6B	600	528
608817	300/6B	800	528
608821	300/6B	1000	528
617661	300/2	200	528
601755	300/2	300	528
601756	300/2	400	528
601757	300/2	500	528
620230	2039/2	400	528
613103	300/2C	320	528
613104	300/2C	410	528
613105	300/2C	610	528
601758	300/2A	537	528
621998	2042/2	115	528
613106	300CCB	3	528
619935	1375/6	0.5	529
621857	1376.1	130	529
600782	210/2	17	529
600783	210/2	19	529
600810	213/6	17	529
600811	213/6	17	529
600809	213/6	17	529
600812	213/6	17	529
600813	213/6	24	529
600814	213/6	24	529
621858	1376.2	290	529
619936	1376/6	0,5 l	529
621859	1376.3	R1/8"	529
600785	212/2	17	529
600786	212/2	19	529
600788	212/2	24	529
600789	212/2	27	529
600790	212/2	30	529
600791	212/2	32	529
619722	2202/2BI	430	530
620567	2202.1/2	21	530
620208	2202.1/2	25	530
620209	2202.1/2	30	530
620210	2202.1/2	35	530
620211	2202.1/2	43	530
619730	2206	211	530
619739	2035	73	530
600771	185/2	16	530
607956	185/2	19	530
600772	185/2	21	530
600773	185/2	21	530
603193	186.4/2	16	530
620820	186.4/2	18	530
603192	186.4/2	19	530
600776	186.4/2	21	530
622513	186.4/2A	14	530
619725	2205	50	531
619726	2205	80	531
619727	2205	80	531
619729	2205	165	531
622637	2033/2PB	700	531
619723	2203/2BI	525	531
601554	431/2	325	531
620225	2209	M 10	531
620948	2209	TX 50	531
600671	200/2	11 x 13	532
600672	200/2	13 x 17	532
600673	200/2	14 x 17	532
600674	200/2	15 x 16	532
600676	200/2	19 x 22	532
600677	200/2CB	11 - 22 / 5	532
620233	2211	305	532
622587	689/2BI	52	535
51-NSG	51 - N SG	11 - 20	535
623089	689.1/4	6,5 - 8	535
623090	689.1/4	10 - 12	535
623091	689.1/4	12 - 15	535
623092	689.1/4	17 - 20	535
623093	689.1/4	22 - 28	535
623094	689.1/4	30 - 36	535
51-1A	51	10 - 13	535
51-E7	51 - E	40-75	535
52-02A	52	M10 + G 3/8"	535
146	146	100-150	536
601771	685/2	30 - 80	536
63-SET1	63-SET1		536
63-SET2	63-SET2		536
612603	680/2	0	536
601762	680/2	1	536
601763	680/2	2	536
601764	680/2	3	536
623062	680.1/4	Tr 10 x 1,5	537
623063	680.1/4	Tr 14 x 2	537
623064	680.1/4	Tr 18 x 2	537
623065	680.1/4	Tr 26 x 3	537
623069	680.2/2	70	537
623070	680.2/2	105	537
623071	680.2/2	170	537
623072	680.2/2	220	537
612655	680/2MS	4	537
601765	681/2	300	537
601766	681/2	400	537
623073	681.2/2	142	537
623074	681.2/2	180	537
615076	683/2	60	537
615077	683/2	90	537
615078	683/2	130	537
615079	683/2	180	537
615080	683/2	250	537
615081	683/2	350	537
623066	683.1/4	Tr 10 x 1,5	538
623067	683.1/4	Tr 14 x 2	538
623068	683.1/4	Tr 26 x 3	538
623075	683.2/2	90	538
623076	683.2/2	140	538
623077	683.2/2	195	538
615082	683/2MS	6	538
135-3	135	50-300	538
135-5	135	50-400	538
135-7	135	50-500	538
S100-14	S110	25-130	538
95-1SP	95-1SP	0-60	538
174	174		539
612604	682/2	0	539
601767	682/2	1	539
601768	682/2	2	539
601769	682/2	3	539
622805	682/2MS	4	539
F113-2,5	F113 - 2,5	50-200	539
100-M1	100-M	100-380	539
100-M2	100-M	120-520	539
113-24	113 KRALLEX	60-200	539
62-1K	62 - 1K	18-130	540
E113-1,5	E113	25-130	540
S113-14	S113	25-130	540
136-5	136	50-400	541
136-7	136	40-500	541
136-10	136	50-500	541
314-1	314	6-100	541
602848	687/2	120	541
623078	687.2/2	64	541
619273	2026/2	5-60	541
619274	2026/2	12-75	541
619275	2026/2	22-115	541
623948	2026.1/4	5-60	542
623949	2026.1/4	12-75	542
623950	2026.1/4	22-115	542
623951	2026.3/2	5-60	542
623952	2026.3/2	12-75	542
623953	2026.3/2	22-115	542
619736	2032/2	23	542
169-2P	169-2P	24	542
169-4	169-4	36	542
169-5	169-5	45	543
165-K3	165-K3	23/28/34	543
165-1	165	28	543
165-3	165	34	543
169-4H	169-4H	36	543
S167	S167	6 piese	543
165-SHO3	165-SHM03		544
620228	2038	3585	544
623954	2038.1/4	40-60	544
623955	2038.2/4	40-45	544
623956	2038.2/4	45-50	544
623957	2038.2/4	50-55	544
623958	2038.2/4	55-60	544
620232	2041/2	18-36	544
200	200	5-32	545
619279	2051/4	300	545
306-S1	306 - S1	80-250	545
619733	2052/4	19	545
601772	686/2	16	545
602369	686/2A	18	545
310-1	310	SW7-22	546
620223	2208	171	546
623959	2208.1/4	Tr 14 x 1,5	546
623960	2208.1A/2	Tr 10 x 1,5	546
S310-S1	S310-S1	4-22 mm / 3 piese	546
623961	2208.1B/2	Tr 10 x 1,5	546
623962	2208.2A/2	130	546
623963	2208.2B/2	175	547
620226	210/2	100	547
623964	2210.1/4	Tr 14 x 1,5	547
623966	2210.2/2	50	547
621780	2210/2A	100	547
623967	2210.2/2A	50	547
623965	2210.1/4A	Tr 14 x 1,5	547
105-1	105 - 1	12	547
619270	1941/2	32	548
619278	2027/2	250	548
619271	1942/2	103	548

Capitol 19

Cod produs	Articol	Dimensiune	Pag.
615534	1608/2BI	350	552
623424	1609/2HOBBY	21,35	552
616293	1607/4	220	552
615536	1609/2BI	350	552
623120	1609.1/2	4	552
623383	1607.1/4	216	552
618414	1672/2	204	553
624037	2620/2BI	275	553
624039	2621/2BI	300	553
623207	1626A	570	553
623086	1626.1A	100	553
616069	1671.2/4	211	553
616068	1671.1/4	112	553
619713	1671.5/2BI	348	554
619714	1671.6/2BI	348	554
620206	1671.7/2BI	335	554
623087	1671.8/2BI	490	554
621660	1625/2	60	554
623085	1625/2BB90	60	555
621661	1626/2	75	555
615011	1610/2	15 x 15	555
615012	1610/2	15 x 17	555
615127	1610/2	15 x 9/16	555
615537	1613/2BI	15	555
615248	1621/1BI	14 x 15	556
616288	1621/1ABI	14	556
615529	1661/4	16,9	556
619710	1664	37	556
619704	1667/2	243	556
623088	1661.3/4P	11,5	557
619707	623088	12 x 1	557
618415	1668/2	14,8	557
623296	1720/2DP	177	557
623728	1647HOBBY/4P	3,4	557
621662	1647/2ABI	3,4	558
621734	1647.1/4A	3,4	558
617170	1643/4	0 - 1,2	558
615377	1640/1DP	243	558
605956	1640.1/4	2,8	558
617171	1644/2	122,5	558
619589	1659/2	350	559
619704	1667/2	243	559

615528	1660/2	350	559
619717	1658/2P	250	559
617235	1670/2BI	350	560
622881	1670/2BI	350	560
616062	1670.1/4	44,7	560
616063	1670.2/4	19,9	560
616064	1670.3/4	23	560
616707	1670.4/4	44,2	560
616065	1670.5/4	45,4	560
616066	1670.6/4	25,4	560
616067	1670.7/4	69,1	561
617908	1670.8/2BI	337	561
616758	1669/4	47	561
623473	1722/2BI	350	561
620195	1614/4BI	1"	561
620255	1683/4A	1"	562
615527	1616/4	25	562
616292	1682/4	124	562
616291	1681/4	1"	562
619705	1681.1/4	1.1/4"	562
619618	1682.1/4	80	562
616290	1680/4	1"	563
615372	1618/2DP	36	563
618412	1692/4	30	563
617587	1602/2	430	563
623006	1701/5	12 - 12,7	564
623024	1702	32	564
623024	1702	34	564
623024	1702	35/36	564
623024	1702	40	564
623259	1703/2	5	564
616074	1696	1" x 24 tpi	564
619633	1696	1.1/8" x 26 tpi	564
616075	1696.1	1" x 24 tpi	564
617898	1696.2	1.1/8" x 26 tpi	564
623301	1721		565
623417	1604/2PLUS	1"	565
623418	1604.1/2PLUS	57	565
619715	1639/2	9	565
623297	1751/2	1,2	565
623298	1751/2Q	3,35 x 3,35	566
623441	1754	16	566
623299	1751/2T	1,3	566
623300	1751.1/7T	1	566
623310	1753/6	185	566
623448	1630/4DTPR	TX 20	567
623302	1752/2	205	567
618486	1690/1	320	567
620179	1633/2P	4	567
622789	1633/2P	3,3	567
618410	1634/2P	4,3	568
618411	1635/2P	6	568
623449	1635/2AP	6,8	568
619718	1636/2P	5	568
615532	1630/2P	3,3	568
615533	1630/2P	3,45	568
616759	1630/2A	3,3	568
616845	1630/2A	3,45	568
616289	1631/2	40	569
617588	1632	10	569
620561	1629	357,5	569
618413	1663/2BI	342	569
619716	1666/2DP	2,2	569
621889	1750/2BI	3,5	569
623060	1688	760	570
621616	1688.2	96	570
622603	1689.2	61	570
623059	1689	385	570
621615	1689.1	8	571
623004	1689.3	12	571
623005	1689.3	15	571
621617	1689.3	20	571
623256	1689.5	1	571
623450	1689.6	80	571
621470	1693A	980	572
623222	1693AS	980	573
624035	1693BAG	1	573
621471	1693B	985	573
623226	1693B1	985	574
623223	1693BS	985	574
623227	1693BS1	985	574
622581	1693C	1680	574
623228	1693C1	1680	575
623224	1693CS	1680	575
623229	1693CS1	1680	575
623230	1693CS2	1680	575
621472	1693.1	24	576
623206	1693.1S	24	576
623231	1693.4B	726	576
623232	1693.4C	905	576
623820	1693.3	822	576
623821	1693.6	27	576
622589	1693.2	24	577
623225	1693.2S	24	577
621961	1693.11	96,1	577
623205	1693.12	150	577
618371	1684	1675	577
622878	1600A1	13	578
622879	1600A2	19	578
622880	1600A3	22	578
617229	1600AT	210	578
617230	1600BT	390	578
617231	1600CT	380	578
622875	1600EN	37	578
622977	1600N	3	578
623008	1600E1N	37	579
622877	1600G1N	50	579
622862	1600SOS7	8	579
622876	1600GN	50	579
622868	vl1600SOS7	564	579
622869	vl1600SOS8	564	579
622863	1600SOS8	12	580
622864	1600SOS9	3	580
622870	vl1600SOS9	564	580
622865	1600SOS10	3	580
622871	vl1600SOS10	564	580
622866	1600SOS11	11	580
622872	vl1600SOS11	564	580
622867	1600SOS12	15	580
622873	vl1600SOS12	573	580
623441	1754	16	581
617593	1694	1.1/8"	581
617824	1694.1	1.1/8"	581
623190	1695/4BI	515	581
616077	1695	3	582
616078	1695	5	582
616079	1695	10	582
616080	1695.1	9/16 x 20 TPI	582
616081	1695.2	16 x 1	582
616082	1695.3	M16x1	582
616083	1695.4	M16Lx1	582
616554	1695.1AL	5/8" x 24 TPI	582
616553	1695.1AR	5/8" x 24 TPI	582
616551	1695.3A	5/8 x 24	583
616552	1695.4A	5/8Lx24	583
616076	1697	1.3/8x24 tpi	583
617310	1697.1	1.3/8x24 tpi (BSA)	583
617589	1698	36x24 tpi (ITAL)	583
617590	1698.1	36x24 tpi (ITAL)	583
617591	1699	36x24 tpi(ITAL)	584
617592	1699.1	29	584
621983	1655FH	135	584
620077	1678/2BI	465	584
617586	1601/2DP	300	584
623387	1657/2A	2	585
621984	1657BLUE	2	585
624142	1657BLACK	2	585
624143	1657GREEN	2	585
624144	1657RED	2	585
616294	253/2DP	123	585
619719	1642.1/2P	185	585
621020	253.1/4A	7	585
615125	1612/2	13x14	586
615126	1612/2	13x14	586
624040	1782	80	586
615120	1612PB	2	586
623145	1780/3G	5	586
623146	1780/3G	6	586
623147	1780/3G	8	586
623148	1780/3G	10	586
623295	1781/2	8	586
624027	1781/2HX	2	586
624029	1781/2TX	10	587
624030	1781/2HXS	4	587
620591	584/2POLLY	180	587
615518	1617/2DP	13	587
615519	1617/2DP	14	587
615520	1617/2DP	15	587
615521	1617/2DP	16	587
615522	1617/2DP	17	587
615523	1617/2DP	18	587
615524	1617/2DP	19	587
615525	1617/2DP	20	587
617840	1617/2DP	22	587
621918	1617/2DP	23	587
617841	1617/2DP	24	587
619554	1617/2DP	27	587
624134	1617/2DP	28	587
615367	1617/2DP	30	587
615368	1617/2DP	32	587
615369	1617/2DP	34	587
615370	1617/2DP	36	587
615371	1617/2DP	40	587
615456	1617/2DP	42	587
615457	1617/2DP	44	587
623257	1617/2DP	1/2"	587
623258	1617/2DP	9/16"	587
615373	1612/2A	8 x 9	587
615374	1612/2A	10 x 11	587
615375	1612/2A	12 x 13	587
615376	1612/2A	14 x 15	587
624042	1617/2DPPB	13 - 28 / 12	587
616075	1696.1	1" x 24 tpi	588
617898	1696.2	1.1/8" x 26 tp	588
617824	1694.1	1.1/8"	588
623120	1609.1/2	4	588
617310	1697.1	1.3/8 x 24 tpi (BSA)	588
617592	1699.1	29	588
621020	253.1/4A	7	588
617590	1698.1	36 x 24 tpi (ITAL)	588
605956	1640.1/4	2,8	588
623300	1751.1/7T	1	588
621734	1647.1/4A	3,4	589
623820	1693.3	822	589
621961	1693.11	96,5	589
623205	1693.12	150	589
621616	1688.2	96	589
621615	1689.1	8	589
622603	1689.2	61	589
623004	1689.3	12	589
623005	1689.3	15	589
621617	1689.3	20	589
623256	1689.5	1	589
623450	1689.6	80	589
626979	1695MB1	5	590
627084	190.8/2BI	1/2"	590
626467	1697.2/4	75	590
627100	1647/5MINI	6,8	590
626487	1697.3	1.3/8" x 24 tpi	590
626486	1698.3		590
626469	1699.4ITA	36 x 24 tpi	591
626463	1694.2/4	427	591
626466	1698.2/4	75	591
626470	1699.4BSA	13/8" x 24	591
626468	1699.2/4	297	591
626471	1699.5/4P	60	591
626464	1695.1/4BI	320	591
627271	1758/4	20	592
627272	1758/4	12 & 15	592
626542	1693H	252	592
625044	1657STR	27	592
627042	1600PROKIT	49	592
627041	970PROKIT		593
626543	1600RN	19	593

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Cod produs	Articol	Dimensiune	Pag.
620069	406/4E	120	596
620071	455/4E	110	596
620072	461/4E	115	596
620070	472/4E	135	596
620073	506/4E	140	596
620074	508/4E	135	596
620075	512/4E	140	597
64730	64730	120	597
64731	64731	130	597
64732	64732	130	597
64733	64733	135	597
64734	64734	135	597
64735	64735	155	597
64736	64736	120	597
64737	64737	110	597
623364	619E	TS 1	598
608304	615E	PH 000	598
608305	615E	PH 00	598
608306	615E	PH 0	598
608307	615E	PH 1	598
608296	605E	0.25x1.2	598
608297	605E	0.23x1.5	598
608298	605E	0.3x1.8	598
608299	605E	0.4x2.5	598
608300	605E	0.5x3.0	598
608301	605E	0.5x3.0	598
608302	605E	0.8x4.0	598

608303	605E	0.8x4.0	598
604546	621E	TX 4	598
604547	621E	TX 5	598
608310	621E	TX6	598
608311	621E	TX 7	598
608312	621E	TX 8	598
608313	621E	TX 9	598
608314	621E	TX 10	598
608315	621E	TX 15	598
608316	621E	TX 02	598
608308	625E	PZ 0	598
608309	625E	PZ 1	598
92407	Hex MM PSD™	0.7	599
92409	Hex MM PSD™	0.9	599
92413	Hex MM PSD™	1.3	599
92415	Hex MM PSD™	1.5	599
92420	Hex MM PSD™	2	599
92425	Hex MM PSD™	2.5	599
92430	Hex MM PSD™	3	599
92440	Hex MM PSD™	4	599
92613	Ball-Hex MM PSD™	1.27	599
92615	Ball-Hex MM PSD™	1.5	599
92620	Ball-Hex MM PSD™	2	599
92625	Ball-Hex MM PSD™	2.5	599
92630	Ball-Hex MM PSD™	3	599
92640	Ball-Hex MM PSD™	4	599
92008	Slotted MM PSD™	0.8	599
92010	Slotted MM PSD™	1	599
92012	Slotted MM PSD™	1.2	599
92018	Slotted MM PSD™	1.8	599
92020	Slotted MM PSD™	2	599
92025	Slotted MM PSD™	2.5	599
92035	Slotted MM PSD™	3.5	599
92040	Slotted MM PSD™	4	599
92100	PoziDriv PSD™	PZ 0	599
92101	PoziDriv PSD™	PZ 1	599
92108	Phillips PSD™	PH 000	599
92109	Phillips PSD™	PH 00	599
92110	Phillips PSD™	PH 0	599
92111	Phillips PSD™	PH 1	599
92203	TORX® PSD™	T3	599
92204	TORX® PSD™	T4	599
92205	TORX® PSD™	T5	599
92206	TORX® PSD™	T6	599
92207	TORX® PSD™	T7	599
92208	TORX® PSD™	T8	599
92209	TORX® PSD™	T9	599
92210	TORX® PSD™	T10	599
92215	TORX® PSD™	T15	599
92220	TORX® PSD™	T20	599
92199	92199	10 piese	599
92301	Hex inch PSD™	.028"	599
92302	Hex inch PSD™	.035"	599
92303	Hex inch PSD™	.050"	599
92304	Hex inch PSD™	1/16"	599
92305	Hex inch PSD™	5/64"	599
92306	Hex inch PSD™	3/32"	599
92307	Hex inch PSD™	7/34"	599
92308	Hex inch PSD™	1/8"	599
92309	Hex inch PSD™	9/64"	599
92310	Hex inch PSD™	5/32"	599
92502	Ball-Hex inch PSD™	.035"	599
92503	Ball-Hex inch PSD™	.050"	599
92504	Ball-Hex inch PSD™	1/16"	599
92505	Ball-Hex inch PSD™	5/64"	599
92506	Ball-Hex inch PSD™	3/32"	599
92507	Ball-Hex inch PSD™	7/34"	599
92508	Ball-Hex inch PSD™	1/8"	599
92509	Ball-Hex inch PSD™	9/64"	599
92510	Ball-Hex inch PSD™	5/32"	599
92200	92200	10 piese	599
92300	92300	10 piese	600
92400	92400	8 piese	600
92500	92500	8 piese	600
92600	92600	8 piese	600
64756		TX 4	600
64757		TX 5	600
64758		TX 6	600
64762		TTX 7	600
64763		TTX 8	600
64764		TTX 9	600
64765		TTX 10	600
621692	403C	11	600
620963	403B	3	601
620212	403A	6	601
620962	608CS5E	5	601
620959	606CS5E	5	601
620960	607CS7E	7	601
620961	621CS7E	TX 6 - TX 20 / 7	601
609953	607S50E	50	601
11501570041	11501570041	32 piese	602
11501570043	11501570043	17 piese	602
11501570042	11501570042	57 piese	602
619280	1342	160	603
619281	1343	155	603
619282	1344	140	603
619283	1345	115	603
619284	1346	165	603
619285	1347	115	603
619286	1348	120	603
617773	639A	165	603
617775	639C	165	603
617774	639B	165	603
617776	639D	165	603
617777	639PB		603

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Cod produs	Articol	Dimensiune	Pag.
6100160	6100	160	606
6100180	6100	180	606
6100200	6100	200	606
6100220	6100	220	606
6100240	6100	240	606
6103160	6103	160	606
6113190	6113	190	606
6117160	6117	160	606
6101160	6101	160	606
6101180	6101	180	606
6101200	6101	200	606
6101220	6101	220	606
6101240	6101	240	606
6104120	6104	120	606
6104140	6104	140	606
6104160	6104	160	606
6115120	6115	120	606
6115140	6115	140	606
6115160	6115	160	606
6120160	6120	160	606
6102160	6102	160	606
6102180	6102	180	606
6102200	6102	200	606
6102220	6102	220	606
6111120	6111	120	606
6111140	6111	140	606
6111160	6111	160	606
6116160	6116	160	606
6121160	6121	160	606
6125030	6125	30	607
6125040	6125	40	607
6125050	6125	50	607
6125060	6125	60	607
6125070	6125	70	607
6125080	6125	80	607
6125100	6125	100	607
6135180	6135	180	607
6171200	6171	200	607
6171220	6171	220	607
6171240	6171	240	607
6171260	6171	260	607
6161180	6161	180	607
6161190	6161	190	607
6161200	6161	200	607
6127006	6127	6	607
6127008	6127	8	607
6127010	6127	10	607
6127012	6127	12	607
6127014	6127	14	607
6166180	6166	180	607
6132060	6132	60	607
6132070	6132	70	607
6132080	6132	80	607
6132100	6132	100	607
6163200	6163	200	607
6167180	6167	180	607
6167200	6167	200	607
6200160	6200	160	607
6200180	6200	180	607
6200200	6200	200	607
6200220	6200	220	607
6200240	6200	240	607
6201160	6201	160	607
6201180	6201	180	607
6201200	6201	200	607
6201220	6201	220	607
6201240	6201	240	607
6202160	6202	160	607
6202180	6202	180	607
6202200	6202	200	607
6202220	6202	220	607
6205180	6205	180	608
6205200	6205	200	608
6205220	6205	220	608
6205240	6205	240	608
6205260	6205	260	608
6205280	6205	280	608
6208180	6208	180	608
6208200	6208	200	608
6208220	6208	220	608
6211120	6211	120	608
6211140	6211	140	608
6211160	6211	160	608
6207180	6207	180	608
6207200	6207	200	608
6207220	6207	220	608
6203160	6203	160	608
6203180	6203	180	608
6203200	6203	200	608
6203220	6203	220	608
6206220	6206	220	608
6206240	6206	240	608
6209200	6209	200	608
6209220	6209	220	608
6209240	6209	240	608
6209260	6209	260	608
6209280	6209	280	608
6212160	6212	160	608
6212170	6212	170	608
6204120	6204	120	608
6204140	6204	140	608
6204160	6204	160	608
6210180	6210	180	608
6213190	6213	190	608
6217160	6217	160	608
6215120	6215	120	609
6215140	6215	140	609
6215160	6215	160	609
6216160	6216	160	609
6218160	6218	160	609
6219160	6219	160	609
6220160	6220	160	609
6221160	6221	160	609
6222025	6222	25	609
6222030	6222	30	609
6222035	6222	35	609
6222040	6222	40	609
6222045	6222	45	609
6223220	6223	220 x 30	609
6224200	6224	160	609
6225030	6225	30	609
6225040	6225	40	609
6225050	6225	50	609
6225060	6225	60	609
6225070	6225	70	609
6225080	6225	80	609
6225100	6225	100	609
6226006	6226	6	609
6226008	6226	8	609
6226010	6226	10	609
6226012	6226	12	609
6226014	6226	14	609
6228080	6228	80 x 60 x 60	610
6228110	6228	110 x 75 x 75	610
6228120	6228	120 x 97 x 97	610
6229080	6229	80 x 60 x 60	610
6229110	6229	110 x 75 x 75	610
6229120	6229	120 x 97 x 97	610
6230080	6230	80 x 60 x 60	610
6231080	6231	80 x 60 x 60	610
6232060	6232	60	610
6232070	6232	70	610
6232080	6232	80	610
6232100	6232	100	610
6233070	6233	70	610
6233080	6233	80	610
6233100	6233	100	610
6234180	6234	180	610

6236180	6236	180	610
6236200	6236	200	610
6236220	6236	220	610
6235180	6235	180	610
6235200	6235	200	610
6300160	6300	160	610
6300180	6300	180	610
6300200	6300	200	610
6301160	6301	160	610
6301180	6301	180	610
6302160	6302	160	611
6302180	6302	180	611
6302200	6302	200	611
6302220	6302	220	611
6303160	6303	160	611
6303180	6303	180	611
6303200	6303	200	611
6303220	6303	220	611
6304120	6304	120	611
6304140	6304	140	611
6304160	6304	160	611
6311120	6311	120	611
6311140	6311	140	611
6311160	6311	160	611
6316160	6316	160	611
6312160	6312	160	611
6312170	6312	170	611
6313190	6313	190	611
6315120	6315	120	611
6315140	6315	140	611
6315160	6315	160	611
6317160	6317	160	611
6318160	6318	160	611
6320160	6320	160	611
6325030	6325	30	611
6325040	6325	40	611
6325050	6325	50	611
6325060	6325	60	611
6325070	6325	70	611
6325080	6325	80	611
6325100	6325	100	611
6319160	6319	160	612
6321160	6321	160	612
6332060	6332	60	612
6332070	6332	70	612
6332080	6332	80	612
6332100	6332	100	612
6500160	6500	160	612
6500180	6500	180	612
6500200	6500	200	612
6322025	6322	25	612
6322030	6322	30	612
6322035	6322	35	612
6322040	6322	40	612
6322045	6322	45	612
6333070	6333	70	612
6333080	6333	80	612
6333100	6333	100	612
6501160	6501	160	612
6501180	6501	180	612
6501200	6501	200	612
6502160	6502	160	612
6502180	6502	180	612
6502200	6502	200	612
6503160	6503	160	612
6503180	6503	180	612
6503200	6503	200	612
6511120	6511	120	612
6511140	6511	140	612
6511160	6511	160	612
6517160	6517	160	612
6520160	6520	160	612
6504120	6504	12	613
6504140	6504	140	613
6504160	6504	160	613
6515140	6515	140	613
6518160	6518	160	613
6521160	6521	160	613
6516160	6516	160	613
6519160	6519	160	613
6522025	6522	25	613
6522030	6522	30	613
6522035	6522	35	613
6522040	6522	40	613
6522045	6522	45	613
6589160	6589	160	613
6525030	6525	30	613
6525040	6525	40	613
6525050	6525	50	613
6525060	6525	60	613
6525070	6525	70	613
6525080	6525	80	613
6525100	6525	100	613
6528080	6528	80 x 60 x 60	613
6528110	6528	110 x 75 x 75	613
6528120	6528	120 x 97 x 97	613
6529080	6529	80 x 60 x 60	613
6529110	6529	110 x 75 x 75	613
6529120	6529	120 x 97 x 97	613
6602180	6602	280 x 130	614
6603500	6603	500 x 130	614
6601280	6601	280 x 130	614
6702280	6702	280 x 130	614
6604500	6604	500 x 130	614
6701280	6701	280 x 130	614
5196020	5196	20	614
5196030	5196	30	614
5196040	5196	40	614
5196050	5196	50	614
5196060	5196	60	614
5196070	5196	70	614
5196080	5196	80	614
5196090	5196	90	614
5196100	5196	100	614
5196120	5196	120	614
5196140	5196	140	614
71560	7150R	180	614
71561	7150R	200	614
71562	7150R	210	614
71571	7150P	180	614
71572	7150P	200	614
71578	7150T	140	614
71579	7150T	160	614
70111	7011	200 x 80	614
70110	7011	240 x 100	614
70112	7011	130 x 280	614
074555	074555	185	615
060055	060055	1+1	615
060155	060155	1+1	615
066855	066855	1+1	615
566855	566855	1+1	615
064055	064055	115 X 140	615
064555	064555	565 x 140	615
069655	069655	530 x 160	615
066155	066155	160-290	616
066355	066355	75 - 125	616
163155	163155	515 X 625	616
064755	064755	257	616
066755	066755	257	616
067055	067055	150	616
067255	067255	250	616
173055	173055	0-360°	616
067755	067755	400	616
162255	162255	Ø 60, 67, 74	617
162355	162355	Ø 68, 74, 80, 90, 100	617
266455	266455		617
067901	067901		617
164355	164355		617
169055	169055	100	617
169155	169155	125	617
169255	169255	150	617
166955	166955	290 x 93	617
161155	161155	450 - 760	617
268000	268055	1200 x 3600	618
266955	266955	max. 18	618
042755	042755	200	618
266655	266655	1370	618
266855	266855	1370	618
266555	266555	1550	618
366755	366755		619
033055	033055	400	619
289955	289955		619
018555	018555	3,3; 4,1	619
018455	018455	3.0, 4.1, 4.9, 6.2	619
031855	031855		619
131955	131955	6	619
31955	031955	10	619
231955	231955	14	619
34755	034755	40	620
34955	034855	60	620
34855	034955	80	620
135455	135455	80	620
135555	135555	66	620
130755	130755	5,0 - 25,0	620
130255	130255	4,0 - 40,0	620
127055	127055	215	620
012755	012755	215	620
038955	038955	max. 2,0	621
017255	017255	max. 2,5	621
037355	037355	270	621
036455	036455	220	621
236455	236455		621
136455	136455		621
036155	036155		621
133355	133355		621
064255	064255	30	621
134255	134255	28	622
134355	134355	45	622
134455	134455	45	622
073155	073155	Ø 16, 20 si 25	622
073255	073255		622
135155	135155	500	622
050155	050155	8 - 30	622
050255	050255	20 - 60	622
089755	089755	610 x 230	622
087055	087055		622
087155	087155	280	623
200-1	200-1	450	623
200-2	200-2	285	623
200-3	200-3	300x60x65	623
041255	041255		623
040655	040655	185	623
042855	042855	240	623
043855	043855	242	623
071055	071055	235 x 420	623
041455	041455		624
047755	047755	180	624
049855	049855	200 x 385	624
047101	047101	30	624
041501	041501	16	624
042501	042501	20	624
046901	046901		624
044300	044300	16	625
900470E	900470EDMA	18	625
043001	043001	20	625
043501	043501	20	625
043700	043700	25	625

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Cod produs	Articol	Dimensiune	Pag.
LC4R2502005	MIZAR	250	628
LC4R3002408	MIZAR	300	628
F3003224430	MIZAR	300	628
LC4R3502418	MIZAR	350	628
F3503524430	MIZAR	350	628
LC4R3502403	MIZAR	350	628
F3504224430	MIZAR	350	628
LC4R3802405	MIZAR	380	628
F3804024430	MIZAR	380	628
LC4R4002410	MIZAR	400	628
F4004224430A	MIZAR	400	628
F4504224430	MIZAR	450	628
F4504224470A	MIZAR	450	628
LM04 0300	LM04	250	628
LM04 0700	LM04	300	628
LM04 0500	LM04	300	628
LM04 2400	LM04	350	628
LM04 1100	LM04	350	628
LM05 1600	LM05	380	628
LM05 1700	LM05	380	628
LM05 1900	LM05	400	628
LM05 2100	LM05	400	628
LM06 1300	LM06	350	629
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LC3002406	GAMMA IV	300	629
LC3003601	GAMMA IV	300	629
LC3502802	GAMMA IV	350	629
LC3504206	GAMMA IV	350	629
LC4003202	GAMMA IV	400	629
LC4004801	GAMMA IV	400	629
LC4503602	GAMMA IV	450	629
LC4505404	GAMMA IV	450	629
LC5004003	GAMMA IV	500	629
LC5006002	GAMMA IV	500	629
LC5504401	GAMMA IV	550	629
LC6004804	GAMMA IV	600	629
LG1C 1000	LG1C	350	629
LC2504003	GAMMA III	250	630
LC2504802	GAMMA III	250	630
LC3004802	GAMMA III	300	630
LC3006006	GAMMA III	300	630
LC3505403	GAMMA III	350	630
LC3507201	GAMMA III	350	630
LC4006401	GAMMA III	400	630

LC4008001	GAMMA III	400	630
LC4507201	GAMMA III	450	630
LC5007202	GAMMA III	500	630
LC5506005	GAMMA III	550	630
LC6007201	GAMMA III	600	630
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LG2A 2100	LG2A	300	630
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LC3007201	GAMMA II	300	630
LC3057201	GAMMA II	305	630
LC3508404	GAMMA II	350	630
LC4009604	GAMMA II	400	630
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LG2B 1400	LG2B	350	630
LC1504806	GAMMA I	150	631
LC1805602	GAMMA I	180	631
LC2006406	GAMMA I	200	631
LC2508001	GAMMA I	250	631
LC3009605	GAMMA I	300	631
LC3059601	GAMMA I	305	631
LC35010801	GAMMA I	350	631
LC40012003	GAMMA I	400	631
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LG2C 1500	LG2C	300	631
LC2508004	INDUS	250	631
LC3009603	INDUS	300	631
LC35010807	INDUS	350	631
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LC1002010	THYCO	100	632
LC1202410	THYCO	120	632
LC1252420	THYCO	125	632
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LI25M31EA3	LI25M	120	632
LI25M31FA3	LI25M	125	632
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LC3009602	ALGOR (+)	300	633
LC35010803	ALGOR (+)	350	633
LC40012007	ALGOR (+)	400	633
LC2508002	ALGOR (-)	250	633
LC3009604	ALGOR (-)	300	633
LC35010805	ALGOR (-)	350	633
LC40012001	ALGOR (-)	400	633
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31000700600	3100 / 3101	6	634
31000700700	3100 / 3101	7	634
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SCH2UFN244R	SCH2UF	10	635
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PF06MD GC3	PF06MD - PF06MS	12	637
PF06MD HC3	PF06MD - PF06MS	14	637
PF06MD IC3	PF06MD - PF06MS	15	637
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PF06MS AC3	PF06MD - PF06MS	5	637
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PC04MD 603	PC04MD	60	637
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40-10408P	40	33	639
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R006M07406	RO06M	5	640

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56-10408P	56	1.98	641
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56-11408P	56	3	641
56-11508P	56	3.5	641
56-10908P	56	3.97	641
56-11608P	56	5	641
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58-10408P	58	1.98	641
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58-11608P	58	5	641
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22-10408P	22	12.7	642
22-10508P	22	15.8	642
22-10608P	22	19	642
52-52212P	52	28.58	642
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39-20908P	39	24.7	643
39-20808P	39	31.75	643
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30-10208P	30	22.2	644
30-10308P	30	25.4	644
30-10408P	30	31.8	644
30-10608P	30	38.1	644
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82-10608P	82	25.4	644
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99-03712P	99	35	645
99-03912P	99	50.8	645
99-24012P	99	50.5	645
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38-20408P	38	38.1	646
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38-10208P	38	35	646
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38-60408P	38	34.9	647
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99-22112P	99	76.2	653
99-22412P	99	76.2	653
99-22512P	99	76.2	653
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99-57112P	99	89	654
99-32212P	99	31.8	654
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CG05MEA310	CG05M	30	656
CG05MFA310	CG05M	50	656
XT60642067866	XT60642067866	40	657
XT60642067863	XT60642067863	6	657
XT60642067832	XT61012	4	657
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PROFI II 1500	PROFI II 1500	1650 x 790 x 850 mm	667
SCHOOL 1/850	SCHOOL 1/850	1450x1450x850	667
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13355-30-1203030	13355-30	120x30x3.0	668
13355-30-1303030	13355-30	130x30x3.0	668
13355-30-1503030	13355-30	150x30x3.0	668
13355-30-1803030	13355-30	180x30x3.0	668
13355-30-2103030	13355-30	210x30x3.0	668
13355-30-2403030	13355-30	240x30x3.0	668
13355-30-2603030	13355-30	260x30x3.0	668
13355-30-3103030	13355-30	310x30x3.0	668
13355-30-4003030	13355-30	400x30x3.0	668
13355-30-4103030	13355-30	410x30x3.0	668
13355-30-4503030	13355-30	450x30x3.0	668
13355-30-5003030	13355-30	500x30x3.0	668
13355-30-5103030	13355-30	510x30x3.0	668
13355-30-5303030	13355-30	530x30x3.0	668
13355-30-6103030	13355-30	610x30x3.0	668
13355-30-6403030	13355-30	640x30x3.0	668
13355-30-7103030	13355-30	710x30x3.0	668
13355-30-8103030	13355-30	810x30x3.0	668
13355-30-9103030	13355-30	910x30x3.0	668
13355-30-10003030	13355-30	1000x30x3.0	668
13355-30-10103030	13355-30	1010x30x3.0	668
13355-30-10503030	13355-30	1050x30x3.0	668
13355-30-12203030	13355-30	1220x30x3.0	668
13355-35-1003030	13355-35	100x30x3.0	668
13355-35-1203030	13355-35	120x30x3.0	668
13355-35-1303030	13355-35	130x30x3.0	668
13355-35-1503030	13355-35	150x30x3.0	668
13355-35-1803030	13355-35	180x30x3.0	668
13355-35-2103030	13355-35	210x30x3.0	668
13355-35-2403030	13355-35	240x30x3.0	668
13355-35-2603030	13355-35	260x30x3.0	668
13355-35-3103030	13355-35	310x30x3.0	668
13355-35-4003030	13355-35	400x30x3.0	668
13355-35-4103030	13355-35	410x30x3.0	668
13355-35-4503030	13355-35	450x30x3.0	668
13355-35-5003030	13355-35	500x30x3.0	668
13355-35-5103030	13355-35	510x30x3.0	668
13355-35-5303030	13355-35	530x30x3.0	668
13355-35-6103030	13355-35	610x30x3.0	668
13355-35-6403030	13355-35	640x30x3.0	668
13355-35-7103030	13355-35	710x30x3.0	668
13355-35-8103030	13355-35	810x30x3.0	668
13355-35-9103030	13355-35	910x30x3.0	668
13355-35-10003030	13355-35	1000x30x3.0	668
13355-35-10103030	13355-35	1010x30x3.0	668
13355-35-10503030	13355-35	1050x30x3.0	668
13355-35-12203030	13355-35	1220x30x3.0	668
12067-30-1003030	12067-30	100x30x3.0	669
12067-30-1203030	12067-30	120x30x3.0	669
12067-30-1303030	12067-30	130x30x3.0	669
12067-30-1503030	12067-30	150x30x3.0	669
12067-30-1803030	12067-30	180x30x3.0	669
12067-30-2103030	12067-30	210x30x3.0	669
12067-30-2403030	12067-30	240x30x3.0	669
12067-30-2603030	12067-30	260x30x3.0	669

12067-30-3103030	12067-30	310x30x3.0	669
12067-30-4003030	12067-30	400x30x3.0	669
12067-30-4103030	12067-30	410x30x3.0	669
12067-30-4503030	12067-30	450x30x3.0	669
12067-30-5003030	12067-30	500x30x3.0	669
12067-30-5103030	12067-30	510x30x3.0	669
12067-30-5303030	12067-30	530x30x3.0	669
12067-30-6103030	12067-30	610x30x3.0	669
12067-30-6403030	12067-30	640x30x3.0	669
12067-30-7103030	12067-30	710x30x3.0	669
12067-30-8103030	12067-30	810x30x3.0	669
12067-30-9103030	12067-30	910x30x3.0	669
12067-30-10003030	12067-30	1000x30x3.0	669
12067-30-10103030	12067-30	1010x30x3.0	669
12067-30-10503030	12067-30	1050x30x3.0	669
12067-30-12203030	12067-30	1220x30x3.0	669
12067-35-1003030	12067-35	100x30x3.0	669
12067-35-1203030	12067-35	120x30x3.0	669
12067-35-1303030	12067-35	130x30x3.0	669
12067-35-1503030	12067-35	150x30x3.0	669
12067-35-1803030	12067-35	180x30x3.0	669
12067-35-2103030	12067-35	210x30x3.0	669
12067-35-2403030	12067-35	240x30x3.0	669
12067-35-2603030	12067-35	260x30x3.0	669
12067-35-3103030	12067-35	310x30x3.0	669
12067-35-4003030	12067-35	400x30x3.0	669
12067-35-4103030	12067-35	410x30x3.0	669
12067-35-4503030	12067-35	450x30x3.0	669
12067-35-5003030	12067-35	500x30x3.0	669
12067-35-5103030	12067-35	510x30x3.0	669
12067-35-5303030	12067-35	530x30x3.0	669
12067-35-6103030	12067-35	610x30x3.0	669
12067-35-6403030	12067-35	640x30x3.0	669
12067-35-7103030	12067-35	710x30x3.0	669
12067-35-8103030	12067-35	810x30x3.0	669
12067-35-9103030	12067-35	910x30x3.0	669
12067-35-10003030	12067-35	1000x30x3.0	669
12067-35-10103030	12067-35	1010x30x3.0	669
12067-35-10503030	12067-35	1050x30x3.0	669
12067-35-12203030	12067-35	1220x30x3.0	669

Capitol 23

Cod produs	Articol	Dimensiune	Pag.
621856	447/1HPPST	6	672
620421	447/4PHPP	240	673
616727	442/1HYPO	180	673
611780	442/1HYPO	240	673
615185	442/1BIST	6	673
605237	447/1	240	673
607348	447/6	175	673
603160	447/6	240	673
605006	447/6	300	673
610984	447/1BI	240	674
615032	449/1PYTHON	240	674
616725	449/1PYTHON	300	674
615033	449.1	240	674
616726	449.1	300	674
615182	449/1BIST	6	674
601464	441/7PR	240	674
601481	480/6	1	675
601482	480/6	1.1/2"	675
601483	480/6	2	675
601484	480/6	3	675
605125	480/6	4	675
601495	481/6	1/2"	675
601496	481/6	1	675
601497	481/6	1.1/2"	675
601498	481/6	2	675
601499	481/6	3	675
601510	482/6	1/2"	675
601511	482/6	1	675
601512	482/6	1.1/2"	675
601513	482/6	2	675
601514	482/6	3	675
611781	483/6	1.1/2"	675
613076	483/6	2	675
612668	483/6A	1.1/2"	676
612903	483/6A	2	676
612599	400	3	676
601544	492/6	8	676
601545	492/6	10	676
618893	492/6	12	676
601546	492/6	14	676
601547	492/6	18	676
601548	492/6	24	676
601549	492/6	36	676
618894	492/6	48	676
602340	492.1/7	8	676
602332	492.1/7	10	676
620064	492.1/7	12	676
602691	492.1/7	14	676
602695	492.1/7	18	676
602699	492.1/7	24	676
602703	492.1/7	36	676
620065	492.1/7	48	676
602719	492AL	14	676
602720	492AL	18	676
602721	492AL	24	676
602722	492AL	36	676
619786	494/6	8	676
619787	494/6	10	676
619788	494/6	12	676
619789	494/6	14	676
619790	494/6	18	676
619791	494/6	24	676
619792	494/6	36	676
620592	494.1/7	8	677
620593	494.1/7	10	677
620594	494.1/7	12	677
620595	494.1/7	14	677
620596	494.1/7	18	677
620597	494.1/7	24	677
620598	494.1/7	36	677
612869	487/2P	235	677
619882	487.1	2	677
621535	352.2	10	677
621536	352.2	12	677
621537	352.2	14	677
621538	352.2	15	677
621539	352.2	16	677
621540	352.2	18	677
621541	352.2	20	677
621542	352.2	22	677
621543	352.2	3/8"	677
621544	352.2	1/2"	677
621545	352.2	5/8"	677
621546	352.2	3/4"	677
621547	352.2	7/8"	677
621533	352/6PB	10 - 22 / 11	677
621534	352.1/6	1140	677
601100	355/6	4.75 - 14	677
621549	352.3	10	677
621548	352.3	12 - 22	677
601101	358/6	3 - 1	678
601102	358.1/7	11	678
601104	360/6	3 - 32	678
602080	360/6	6 - 67	678
601103	358.2/5	9	678
601108	361/6	1/8"-2"	678
621249	360.1/7	6 - 67	678
601105	360.1/7	3 - 32	678
601106	360.2/5	3 - 32	678
616498	360.2/5	6 - 67	678
601109	361.1/7	1/8" - 2"	678
601111	361.2/7	1/8" - 2"	678
601099	370	3	678
16500300001	BC-HK		679
16500300002	BC-HE		679
16510300001	BC-TKB		679
16510300002	BC-TKE		679
16590300010	BC-B10		679
16590300020	BC-B20		679
16600300100	BC-E100		679
16600300200	BC-E200		679
16600300300	BC-E300		679
16600300350	BC-E350		680
16560300001	BC-DS3		680
16560300002	BC-DS8		680
16610300001	BC-C42		680
16520300001	BC-HE1		680
16520300002	BC-HE3		680
16600300600	BC-E600		680
16520300003	BC-HTB4		680
16530300001	BC-1-10		680
16540300001	BC-2-5		680
16550300001	BC-DE		680
16550300002	BC-R12		680
602600	375/6		681
601530	484/6	4	682
601531	484/6	6	682
601532	484/6	8	682
601533	484/6	12	682
602707	484.1/7	4	682
602710	484.1/7	6	682
602713	484.1/7	8	682
602716	484.1/7	12	682
602708	484.2/7	4	682
602711	484.2/7	6	682
602714	484.2/7	8	682
602717	484.2/7	12	682
602709	484.3/7	4	682
602712	484.3/7	6	682
602715	484.3/7	8	682
602718	484.3/7	12	682
619613	726/6	1/8 - 2"	682
619614	726/6	1/8 - 3"	682

Capitol 24

Cod produs	Articol	Dimensiune	Pag.
SW 50181002	730N	2,0-20 Nm	685
SW 50181005	730N	10-50 Nm	685
SW 50181010	730N	20-100 Nm	685
SW 50181012	730N	25-130 Nm	685
SW 50181020	730N	40-200 Nm	685
SW 50181040	730N	80-400 Nm	685
SW 50181065	730N	130-650 Nm	685
SW 50180002	50180002	4-20 Nm	685
SW 50180012	730	25-130 Nm	685
SW 50180040	730	80-400 Nm	685
SW 50180065	730	130-650 Nm	685
SW 96510502	775/30N/2	40-300 cNm	685
SW 53035000	MP3000	5000	685
SW 58240005	725/4	3/8"	685
SW 58250005	735/5	3/8"	686
SW 58250040	735/40	3/4"	686
SW 58290010	7370/10	9x12/14x18	686
SW 58254004	725/4	1/4"	686
SW 58250020	735/20	1/2"	686
SW 58290040	7370/40	14x18/9x12	686
SW 58221007	732/10	7	686
SW 58221008	732/10	8	686
SW 58221010	732/10	10	686
SW 58221011	732/10	11	686
SW 58221012	732/10	12	686
SW 58221013	732/10	13	686
SW 58221014	732/10	14	686
SW 58221015	732/10	15	686
SW 58221016	732/10	16	686
SW 58221017	732/10	17	686
SW 58221019	732/10	19	686
SW 58221022	732/10	22	686
SW 58621016	732A/10	1/4"	686
SW 58621020	732A/10	5/16"	686
SW 58621024	732A/10	3/8"	686
SW 58621028	732A/10	7/16"	686
SW 58621032	732A/10	1/2"	686
SW 58621034	732A/10	9/16"	686
SW 58621036	732A/10	5/8"	686
SW 58621038	732A/10	11/16"	686
SW 58621040	732A/10	3/4"	686
SW 58621042	732A/10	13/16"	686
SW 58621044	732A/10	7/8"	686
SW 58211008	731/10	8	687
SW 58211010	731/10	10	687
SW 58211011	731/10	11	687
SW 58211012	731/10	12	687
SW 58211013	731/10	13	687
SW 58211014	731/10	14	687
SW 58211015	731/10	15	687
SW 58211016	731/10	16	687
SW 58211018	731/10	18	687
SW 58214017	731/40	17	687
SW 58214018	731/40	18	687
SW 58214019	731/40	19	687
SW 58214021	731/40	21	687
SW 58214022	731/40	22	687
SW 58214024	731/40	24	687
SW 58214027	731/40	27	687
SW 58214030	731/40	30	687
SW 58214032	731/40	32	687
SW 58214036	731/40	36	687
SW 58214038	731/40	38	687
SW 58214041	731/40	41	687
SW 58224013	732/40	13	687
SW 58224014	732/40	14	687
SW 58224015	732/40	15	687
SW 58224016	732/40	16	687
SW 58224017	732/40	17	687
SW 58224018	732/40	18	687
SW 58224019	732/40	19	687

SW 58224021	732/40	21	687
SW 58224022	732/40	22	687
SW 58224024	732/40	24	687
SW 58224027	732/40	27	687
SW 58224028	732/40	28	687
SW 58224030	732/40	30	687
SW 58224032	732/40	32	687
SW 58224034	732/40	34	687
SW 58224036	732/40	36	687
SW 58224041	732/40	41	687
SW 54010001	7380N/ 7385N	360°	687
SW 05060016	59X	M 16	687
SW 05060018	59X	M 18	687
SW 72160000	10905	365 mm	687
SW 79060002		350 mm (12 t.p.i/radial)	687
SW 79060003		350 mm (9 t.p.i./radial)	687
SW 79060012		350 mm (12 t.p.i/ unghiular)	687
SW 79060013		350 mm (9 t.p.i./ unghiular)	687
SW 70220005	10900	400 mm	687
SW 77401030	12920	Φ 30 mm	688
SW 77401040	12920	Φ 40 mm	688
SW 77401050	12920	Φ 50 mm	688
SW 77401060	12920	Φ 60 mm	688
SW 77401032	12921M	32 mm	688
SW 77401045	12921M	45x70 mm	688
SW 77401057	12921M	57 mm	688
SW 77402550	12921M	25x50 mm	688
SW 77401001	12920	65 x 43	688
SW 66080225	6608	225 mm	688
SW 66170215	6617	215 mm	688
SW 65751220	6575	230 mm	688
SW 65751280	6575	280 mm	688
SW 74152001	11069	50-100 mm	688
SW 74152002	11069	80-120 mm	688
SW 74152003	11069	110-160 mm	688
SW 74152004	11069	30-60 mm	688
SW 74152005	11069	60-160 mm	688
SW 76294003	10599/2	245 mm	688
SW 76480001	12771	230 mm	688
SW 13100010	501	456 mm	689
SW 70090001	109	0,9 mm	689
SW 70090002	109	1,4 mm	689
SW 70090003	109	1,8 mm	689
SW 70090004	109	2,4 mm	689
SW 70090005	109	2,8 mm	689
SW 70090006	109	3,4 mm	689
SW 70090007	109	3,9 mm	689
SW 70090008	109	5,9 mm	689
SW 96747303	1570/1	6 piese	689
SW 96747304	1570/2	12 piese	689
SW 63031000	165N	4.75; 5; 6; 8; 9; 10 mm; 3/16; 1/4; 5/16; 3/8"	689
SW 96713025	905/25	M5-M16	689
SW 71170011	11061	0 - 2	690
SW 71160021	11060	16-20 mm	690
SW 71161011	11060	12-16 mm	690
SW 74270005	10356	40 mm	690
SW 79270015	10356R		690
SW 76521002	12007	80 - 110 mm	690
SW 25090027	2509	27 mm	690
SW 25090030	2509	30 mm	690
SW 25090032	2509	32 mm	690
SW 25090033	2509	33 mm	690
SW 26090027	2609	27 mm	690
SW 26090030	2609	30 mm	690
SW 26090032	2609	32 mm	690
SW 74060001	12705		690
SW 77490012	13126-2		690
SW 77260025	12600	460 mm	691
SW 77260027	12600	500 mm	691
SW 96722801	13100	1	691
SW 71200000	12200	145 mm	691
SW 77250000	12378	260 mm	691
SW 96080113	1204/8	8 piese	691
SW 43100206	12506	6 mm	691
SW 18120001	4008	6,3 mm	691
SW 96774200	12941N	100 W	691
SW 77420060	12943N	60 W	691
99CD1	99-CD1	210x170x50 mm	692
99CD8A	99-CD8A	285x195x50 mm	692
99REN	99-REN		692
C364C	C-364-C	0 - 25 bar	692
C370B	C-370-B	0 - 75 bar	692
FL11	FL-11		692
913T	913-T		692
FET10	FET-10	0 - 4 bar	692
BAL19	BAL-19	300 mm	692
694-C-16-N	694-C-16-N	16 piese	693
694-C-32-N	694-C-32-N	32 piese	693
359C2	359-C2	320x200x400 mm	693
EX370B	EX-370B	1	693
385-SI	385SI/ISO	SI 75 - 100 - 125 - 150 - 175 - 200 - 250 - 300	693
385-ISO	385SI/ISO	ISO 80 - 100 - 125 - 150 - 175 - 200 - 250 -300	693
SDP-16	SDP-16	M16 x 60 mm	693
STR-10	STR-10	M16 x 60 mm	693
344-3	344-4	1	693
DYTFZ-5	DYTFZ	1/4" 1 - 5 Nm	693
DYTFZ-50	DYTFZ	3/8" 10-50 Nm	693
DYTC-50-Z	DYTC	3/8" 10-50 Nm	693
DYTC-350-Z	DYTC	1/2" 70-350 Nm	693
AST-4635	AST-4635	1	693
AST-4740	AST-4740	1	693
ZB293200	293	200	694
ZB312200	312	200	694
ZB247410	2474	Φ 10	694
ZB247411	2474.1	Φ 10	694
ZB831004	831	Φ 4	694
ZB527270	257	270 mm (1.3/4")	694
ZB257300	257	300 mm (2")	694
ZB246450	246	450 mm (2.1/2")	694
ZB246600	246	600 mm (3.1/2")	694
ZB171700	1717	4	694
61045	61045	60" (8")	695
61044		10" (1.1/2")	695
61028		48" (6")	695
63010	63010	1.1/4"/2"	695
63042		1/2"	695
63043		3/4"	695
63044		1"	695
63046		1.1/2"	695
63003		1/2"	695
63004		3/4"	695
63005		1"	695
63008		1.1/2"	695
61579	61579	240 mm	695
60015	60015	2"	695
64190		1/4", 3/8", 1/2"	695
64191		3/4"	695
64192		1"	695
64193		1.1/4"	695
64194		1.1/2"	695
64195		2"	695
63355		2"-4"	695
63356		4"-6"	695
63357		6"-8"	695
63358		8"-12"	695
63359		2"-4"	695
63360		4"-6"	695
63361		6"-8"	695
63362		8"-12"	695
64173		2"-4"	695
64174		4"-6"	695
64175		6"-8"	695
64176		8"-12"	695
68206	68206	2"	695
63219		750	695
62571		10"	695
63106	MINI 22	3-22 mm	696
63170	CLASSIC 32	3-32 mm	696
63105	TELESCOPIC 32	3-32 mm	696
63119	UNIQUE 42	6-42 mm	696
63172	STEEL PIPE CUTTER	1/8"-1.1/4"	696
63175	STEEL PIPE CUTTER	2"-4"	696
63199	PLASTIC PIPE CUTTER	35 mm	696
63205	PLASTIC PIPE CUTTER	42 mm	696
63200	PLASTIC PIPE CUTTER	42 mm	696
63085	63085	40 mm	696
62706		7"	696
62707		10"	696
62708		12"	696
63137	63137	1/2"-2"	697
63031	63031	1/2"-1"	697
63162	KIT 2	1/4-2"	697
63167	KIT 4	2.1/4-2"	697
61200	TRISTAND	1/8"-6"	697
69505		3 m	697
69506		5 m	697
69507		10 m	697
60005		60 bar	697
63021		3/8"-1.1/4"	697
63022		1/2"-1.1/4"	697
63024		3/8"-1"	697
63025		1/2"-1"	697
63132	63132	1/2"-2"	697

Capitol 25

Cod produs	Articol	Dimensiune	Pag.
618370	110/2VDEDP	6	702
618331	110/2VDEDP	7	702
617801	110/2VDEDP	8	702
621575	110/2VDEDP	9	702
612175	110/2VDEDP	10	702
612176	110/2VDEDP	11	702
612177	110/2VDEDP	12	702
612178	110/2VDEDP	13	702
612179	110/2VDEDP	14	702
612180	110/2VDEDP	15	702
621576	110/2VDEDP	16	702
612181	110/2VDEDP	17	702
621577	110/2VDEDP	18	702
612182	110/2VDEDP	19	702
618333	110/2VDEDP	20	702
619201	110/2VDEDP	21	702
612183	110/2VDEDP	22	702
618335	110/2VDEDP	23	702
612184	110/2VDEDP	24	702
621578	110/2VDEDP	26	702
617802	110/2VDEDP	27	702
621579	110/2VDEDP	28	702
618336	110/2VDEDP	30	702
618337	110/2VDEDP	32	702
612676	110/2VDEDPCB	10 - 24 / 10	702
570313006005105	IREGA SWO 92 1000 V	176 mm (6")	702
570313008005105	IREGA SWO 92 1000 V	216 mm (8")	702
621917	250/1VDEDP	150	702
616849	250/1VDEDP	200	702
616850	250/1VDEDP	250	702
616851	250/1VDEDP	300	702
622065	250/1VDEDP	380	702
621580	180/2VDEDP	6	702
621581	180/2VDEDP	7	702
621582	180/2VDEDP	8	702
621583	180/2VDEDP	9	702
612185	180/2VDEDP	10	702
612186	180/2VDEDP	11	703
612187	180/2VDEDP	12	703
612188	180/2VDEDP	13	703
612189	180/2VDEDP	14	703
612190	180/2VDEDP	15	703
621584	180/2VDEDP	16	703
612191	180/2VDEDP	17	703
621585	180/2VDEDP	18	703
612192	180/2VDEDP	19	703
621586	180/2VDEDP	20	703
619202	180/2VDEDP	21	703
612193	180/2VDEDP	22	703
621587	180/2VDEDP	23	703
612194	180/2VDEDP	24	703
621588	180/2VDEDP	26	703
621589	180/2VDEDP	27	703
621590	180/2VDEDP	28	703
621591	180/2VDEDP	30	703
621592	180/2VDEDP	32	703
612677	180/2VDEDPCB	10 - 24 / 10	703
619136	220/3LVDEDP	3	703
619137	220/3LVDEDP	4	703
619138	220/3LVDEDP	5	703
619139	220/3LVDEDP	6	703
619140	220/3LVDEDP	8	703
619141	220/3LVDEDP	10	703
619142	220/3LVDEDP	12	703
619143	196/2LVDEDP	10	703
619150	196/2LVDEDP	11	703
619151	196/2LVDEDP	12	703
619152	196/2LVDEDP	13	703
619153	196/2LVDEDP	14	703
619154	196/2LVDEDP	17	703
619155	196/2LVDEDP	19	703
619156	196/2LVDEDP	20	703
619157	196/2LVDEDP	21	703
619158	196/2LVDEDP	22	703
619159	196/2LVDEDP	23	703
619160	196/2LVDEDP	24	703
619132	220TVDE	4	703
619133	220TVDE	5	703
619134	220TVDE	6	703
619135	220TVDE	8	703
621648	220TVDE4PB	4 - 8 / 4	703
619161	238/2VDEDP	10	703

619162	238/2VDEDP	11	703
619163	238/2VDEDP	12	703
619164	238/2VDEDP	13	703
619165	238/2VDEDP	14	703
619166	238/2VDEDP	17	703
619167	238/2VDEDP	19	703
619168	238/2VDEDP	22	703
619171	236/2HXVDEDP	4	704
619172	236/2HXVDEDP	5	704
619173	236/2HXVDEDP	6	704
619174	236/2HXVDEDP	8	704
619175	236/2HXVDEDP	10	704
619118	238.1AVDEDP	3/8"	704
619169	238.4/2VDEDP	3/8"	704
619170	238.4/2VDEDP	3/8"	704
621647	239VDEDP6P10	10	704
619419	239VDEDP6P13	13	704
617803	190/2VDEDP	8	705
621593	190/2VDEDP	9	705
612195	190/2VDEDP	10	705
612196	190/2VDEDP	11	705
612197	190/2VDEDP	12	705
612198	190/2VDEDP	13	705
612199	190/2VDEDP	14	705
621594	190/2VDEDP	15	705
621595	190/2VDEDP	16	705
612200	190/2VDEDP	17	705
621596	190/2VDEDP	18	705
612201	190/2VDEDP	19	705
621597	190/2VDEDP	20	705
621598	190/2VDEDP	21	705
612202	190/2VDEDP	22	705
621599	190/2VDEDP	23	705
612203	190/2VDEDP	24	705
621600	190/2VDEDP	26	705
617804	190/2VDEDP	27	705
621601	190/2VDEDP	28	705
621602	190/2VDEDP	30	705
621603	190/2VDEDP	32	705
350082	FR350	8	705
350099	FR350	9	705
350105	FR350	10	705
350112	FR350	11	705
350129	FR350	12	705
350136	FR350	13	705
350143	FR350	14	705
350150	FR350	15	705
350167	FR350	16	705
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350303	FR350	30	705
350327	FR350	32	705
612206	190.1VDE	1/2"	705
619104	190/2LVDEDP	10	705
619105	190/2LVDEDP	11	705
619106	190/2LVDEDP	12	705
619107	190/2LVDEDP	13	705
619108	190/2LVDEDP	14	705
619109	190/2LVDEDP	15	705
619110	190/2LVDEDP	16	705
619111	190/2LVDEDP	17	705
619112	190/2LVDEDP	18	705
619113	190/2LVDEDP	19	705
619114	190/2LVDEDP	20	705
619115	190/2LVDEDP	21	705
621604	190/2LVDEDP	22	705
621605	190/2LVDEDP	24	705
361903	FR361	1/2"	705
615173	192/2HXVDEDP	4	706
615174	192/2HXVDEDP	5	706
615175	192/2HXVDEDP	6	706
615176	192/2HXVDEDP	8	706
615177	192/2HXVDEDP	10	706
619119	190.1AVDEDP	1/2"	706
360494	FR360	1/2"	706
612205	190.4/2VDEDP	1/2"	706
612204	190.4/2VDEDP	1/2"	706
375139	FR375	1/2"	706
615178	190.5/2VDEDP	250	706
370493	FR370	1/2"	706
612678	190VDE6P11A	10 - 24 / 11	706
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619178	406/1VDEDP	160	707
619179	406/1VDEDP	180	707
619180	406/1VDEDP	20	707
619181	406/1VDEDP	220	707
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FR100205	FR100	210	708
610425	420/1VDEBI	180	708
619176	420/1VDEDP	180	708
611993	447/1VDEBI	240	708
619199	447/1VDEDP	240	708
610426	461/1VDEBI	140	709
610427	461/1VDEBI	160	709
619193	461/1VDEDP	140	709
619194	461/1VDEDP	160	709
FR200165	FR200	160	709
FR200189	FR200	180	709
624060	462/1VDEBI	160	709
624061	462/1VDEDP	160	709
610428	466/1VDEBI	180	710
611756	466/1VDEBI	200	710
619195	466/1VDEDP	180	710
619196	466/1VDEDP	200	710
610430	472/1VDEBI	160	710
619182	472/1VDEDP	140	710
619183	472/1VDEDP	160	710
FR100502	FR100	220	710
610431	476/1VDEBI	140	710
610432	476/1VDEBI	160	710
619184	476/1VDEDP	140	711
619185	476/1VDEDP	160	711
610434	506/1VDEBI	140	711
610435	506/1VDEBI	160	711
619187	506/1VDEDP	140	711
619188	506/1VDEDP	160	711
610436	508/1VDEBI	170	711
610437	508/1VDEBI	200	711
619189	508/1VDEDP	170	711
619190	508/1VDEDP	200	711
610438	512/1VDEBI	170	711
610439	512/1VDEBI	200	711
619191	512/1VDEDP	170	712
619192	512/1VDEDP	200	712
610440	580/1VDEBI	170	712
610441	580/1VDEBI	230	712
619197	580/1VDEDP	170	712
619198	580/1VDEDP	230	712
FR113533	FR1135	190	712
FR114738	FR1147	160	712
FR502504	FR502504	400	712
FR492324	FR492324	250	712
FR499323	FR499323	250	713
FR499507	FR499507	270	713
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610433	478/1VDEBI	160	713
619186	478/1VDEDP	160	713
616470	603VDE	0.4 x 2.5	713
616471	603VDE	0.5 x 3.0	713
616472	603VDE	0.6 x 3.5	713
616473	603VDE	0.8 x 4.0	713
616474	603VDE	1.0 x 5.5	713
616475	603VDE	1.2 x 6.5	713
616476	603VDE	1.2 x 8.0	713
616477	603VDE	1.6 x 10.0	713
616436	603VDETBI	0.4 x 2.5	713
616437	603VDETBI	0.5 x 3.0	713
616438	603VDETBI	0.6 x 3.5	713
616439	603VDETBI	0.8 x 4.0	713
621247	603VDETBI	1.0 x 4.5	713
616440	603VDETBI	1.0 x 5.5	713
616441	603VDETBI	1.2 x 6.5	713
616442	603VDETBI	1.2 x 8.0	713
621248	603VDETBI	1.6 x 10.0	713
624063	604VDETBI	0.6 x 3.5	714
624064	604VDETBI	0.8 x 4.0	714
624065	604VDETBI	1.0 x 5.5	714
624066	604VDETBI	1.2 x 6.5	714
624071	611VDETBI	SLPH 1	714
624072	611VDETBI	SLPH 2	714
624067	614VDETBI	PH 1	714
624068	614VDETBI	PH 2	714
616443	613VDETBI	PH0	714
616444	613VDETBI	PH1	714
616445	613VDETBI	PH2	714
616446	613VDETBI	PH3	714
616447	613VDETBI	PH4	714
616478	613VDE	PH0	714
616479	613VDE	PH1	714
616480	613VDE	PH2	714
616481	613VDE	PH3	714
616448	620VDETBI	2.5	714
616449	620VDETBI	3	714
616450	620VDETBI	4	714
616451	620VDETBI	5	714
616452	620VDETBI	6	714
616453	620VDETBI	8	714
616482	623VDE	PZ0	714
616483	623VDE	PZ1	714
616484	623VDE	PZ2	714
616485	623VDE	PZ3	714
616454	621VDETBI	TX 10	715
616455	621VDETBI	TX 15	715
616456	621VDETBI	TX 20	715
616457	621VDETBI	TX 25	715
616458	621VDETBI	TX 27	715
616459	621VDETBI	TX 30	715
624069	624VDETBI	PZ1	715
624070	624VDETBI	PZ2	715
617659	630VDE	0.5 x 3.0	715
617660	630VDE	0.6 x 3.5	715
616460	623VDETBI	PZ0	715
616461	623VDETBI	PZ1	715
616462	623VDETBI	PZ2	715
616463	623VDETBI	PZ3	715
616464	629VDETBI	5.5	715
616465	629VDETBI	6	715
616466	629VDETBI	7	715
616467	629VDETBI	8	715
623341	629VDETBI	9	715
616468	629VDETBI	10	715
623342	629VDETBI	11	715
616469	629VDETBI	13	715
619102	385BVDE	180	715
615494	385VDE	180	716
619101	385AVDE	180	716
625610	385CVDEDP	220	716
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619098	750VDEDP	460	716
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615502	753VDEDP	150	716
616847	1340VDEDP	150	716
616848	1341VDEDP	150	716
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617653	603CS6AVT	6	717
617654	603CS6ATVT	6	717
617042	603CS6VDETBI	6	717
617044	603CS6VDE	6	717
617045	603CS6TVDE	6	717
617043	603CS6TVDETBI	6	717
617048	620CS6VDETBI	2.5 - 8 / 6	718
617049	621CS6VDETBI	TX 10 - TX 30 / 6	718
617655	603CS6AVDE	6	718
617656	603CS6ATVD	6	718
FR251174	FR251174	330x190x280	718
617050	629CS6VDETBI	5.5 - 13 / 6	718
617571	905VDEBI	13	718
617573	906VDEBI	6	718
623918	607MD3	80	719
623907	623918	18	719
604552	402C5	3	719
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621781	VL964VDE1	374	719
621784	964VDE2	10 - 24 / 11	719
614269	402C6	3	719
621783	VL964VDE2	374	719
621786	964VDE3	12	719

621785	VL964VDE3	564	719
621790	964VDE5	8 - 32 / 18	719
621789	VL964VDE5	188	719
621798	964VDE7	3 - 12 / 7	720
621797	VL964VDE7	188	720
621800	964VDE8A	11	720
621799	VL964VDE8A	374	720
621802	964VDE8B	8	720
621801	VL964VDE8B	188	720
621806	964VDE8D	TX 10 - TX 30 / 6	720
621805	VL964VDE8D	188	720
621808	964VDE8E	5.5 - 13 / 6	720
621807	VL964VDE8E	188	720
1001	X Key	95x95x13 mm	721
1002	SI - XKEY	65x65x17 mm	721
1004	SI - Key Bau	95x95x13 mm	721
1005	SI - Key Bau Plus	65x65x17 mm	721
1006	SI - Key Bau X Plus	65x65x17 mm	722
1007	SI - Key Elektro	65x65x17 mm	722
1008	SI - Key Elektro Plus	65x65x17 mm	722
1009	SI - Key DB Norm	65x65x17 mm	723
1011	SI - Key DB Norm Xplus	65x65x17 mm	723
1010	SI - Key DB Norm Plus	65x65x17 mm	723
500005	500005	70 mm	723

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626076	120/1-H	6	728
626077	120/1-H	7	728
626078	120/1-H	8	728
626079	120/1-H	9	728
626080	120/1-H	10	728
626081	120/1-H	11	728
626082	120/1-H	12	728
626083	120/1-H	13	728
626084	120/1-H	14	728
626085	120/1-H	15	728
626086	120/1-H	16	728
626087	120/1-H	17	728
626088	120/1-H	18	728
626089	120/1-H	19	728
626090	120/1-H	20	728
626091	120/1-H	21	728
626092	120/1-H	22	728
626093	120/1-H	23	728
626094	120/1-H	24	728
626095	120/1-H	25	728
626096	120/1-H	26	728
626097	120/1-H	27	728
626098	120/1-H	28	728
626099	120/1-H	29	728
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626117	120/1-H	36	728
626174	120/1-H	38	728
626118	120/1-H	41	728
626321	120/1-H	50	728
626295	120/1-H	1/4"	728
626296	120/1-H	5/16"	728
626297	120/1-H	3/8"	728
626298	120/1-H	7/16"	728
626299	120/1-H	1/2"	728
626300	120/1-H	9/16'	728
626301	120/1-H	5/8"	728
626302	120/1-H	11/16"	728
626303	120/1-H	3/4"	728
626304	120/1-H	13/16"	728
626305	120/1-H	7/8"	728
626306	120/1-H	15/16"	728
626307	120/1-H	1"	728
626308	120/1-H	1 1/16"	728
626309	120/1-H	1 1/8"	728
626310	120/1-H	1 1/4"	728
626311	120/1-H	1 5/16"	728
626312	120/1-H	1 3/8"	728
626313	120/1-H	1 7/16"	728
626314	120/1-H	1 1/2"	728
626315	120/1-H	1 5/8"	728
626316	120/1-H	1 11/16"	728
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626389	160/2-H	8	728
626390	160/2-H	9	728
626391	160/2-H	10	728
626392	160/2-H	11	728
626393	160/2-H	12	728
626394	160/2-H	13	728
626395	160/2-H	14	728
626396	160/2-H	15	728
626397	160/2-H	16	728
626398	160/2-H	17	728
626399	160/2-H	18	728
626400	160/2-H	19	728
626401	160/2-H	21	728
626402	160/2-H	22	728
626403	160/2-H	24	728
626106	250/1-H	200	729
626107	250/1-H	250	729
626108	250/1-H	300	729
626109	250/1-H	380	729
626162	250/1-H	450	729
626177	193HX-H	2,5	729
626178	193HX-H	3	729
626180	193HX-H	4	729
626182	193HX-H	5	729
626183	193HX-H	6	729
626184	193HX-H	7	729
626185	193HX-H	8	729
626186	193HX-H	10	729
626344	184/7-H	24	729
626345	184/7-H	27	729
626346	184/7-H	30	729
626347	184/7-H	32	729
626348	184/7-H	36	729
626349	184/7-H	41	729
626350	184/7-H	46	729
626351	184/7-H	50	729
626360	184/7-H	1 1/16"	729
626361	184/7-H	1 1/8"	729
626362	184/7-H	1 3/16"	729
626363	184/7-H	1 1/4"	729
626364	184/7-H	1 5/16"	729
626365	184/7-H	1 3/8"	729
626366	184/7-H	1 7/16"	729
626367	184/7-H	1 1/2"	729
626368	184/7-H	1 5/8"	729
626369	184/7-H	1 11/16"	729
626370	184/7-H	1 3/4"	729
626371	184/7-H	1 13/16"	729
626372	184/7-H	1 7/8"	729
626373	184/7-H	2"	729
626374	184/7-H	2 1/16"	729
626232	220/3MH-H	2.5-10 mm	729
626143	190/1 12P-H	10	730
626144	190/1 12P-H	11	730
626145	190/1 12P-H	12	730
626146	190/1 12P-H	13	730
626147	190/1 12P-H	14	730
626148	190/1 12P-H	15	730
626149	190/1 12P-H	16	730
626150	190/1 12P-H	17	730
626151	190/1 12P-H	18	730
626152	190/1 12P-H	19	730
626153	190/1 12P-H	20	730
626154	190/1 12P-H	21	730
626155	190/1 12P-H	22	730
626156	190/1 12P-H	23	730
626157	190/1 12P-H	24	730
626158	190/1 12P-H	27	730
626159	190/1 12P-H	30	730
626160	190/1 12P-H	32	730
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626207	190/1 12P-H	19/32"	730
626208	190/1 12P-H	5/8"	730
626209	190/1 12P-H	11/16"	730
626210	190/1 12P-H	3/4"	730
626211	190/1 12P-H	25/32"	730
626212	190/1 12P-H	13/16"	730
626213	190/1 12P-H	7/8"	730
626214	190/1 12P-H	15/16"	730
626215	190/1 12P-H	1"	730
626216	190/1 12P-H	1.1/16"	730
626217	190/1 12P-H	1.1/8"	730
626218	190/1 12P-H	1.3/16"	730
626219	190/1 12P-H	1.1/4"	730
626245	190.1/1ABI-H	1/2"	730
626103	190.4/1-H	1/2"	730
626104	190.4/1-H	1/2"	730
627339	1111		730
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626959	405/1BI-H	180	731
626960	466/1BI-H	160	731
626961	466/1BI-H	180	731
626201	455/1BI-H	160	731
626189	508/1BI-H	200	731
626962	512/1BI-H	170	732
626192	512/1BI-H	200	732
626343	447/1HPP-H	240	732
626244	442/1HYPO-H	240	732
626110	425/4B-H	240	732
626259	514/1BI-H	160	733
626387	536PLUS/1DP-H	180	733
626386	532PLUS/1DP-H	180	733
626163	429/3-H	250	733
626263	429/3-H	300	733
626202	580/1BI-H	230	734
626963	406/1VDEDP-H	180	734
626964	466/1VDEDP-H	180	734
626111	481/6-H	2"	734
626113	492/6-H	1.1/2"	735
626119	492AL-H	2"	735
626120	492AL-H	2.1/2"	735
626121	492AL-H	3"	735
626233	605TBI-H	0,4 x 2,5	735
626234	605TBI-H	0,5 x 3,0	735
626235	605TBI-H	0,8 x 4,0	735
626236	605TBI-H	1,0 x 5,5	735
626237	605TBI-H	1,2 x 6,5	735
626238	605TBI-H	1,2 x 8,0	735
626239	605TBI-H	1,6 x 10,0	735
626241	615TBI-H	PH 1	735
626242	615TBI-H	PH 2	735
626243	615TBI-H	PH 3	735
627542	817-H	300	736
627543	806-H	350	736
626164	805A-H	320	736
626114	809-H	300	736
626327	641/6HS-H	2	737
626328	641/6HS-H	3	737
626329	641/6HS-H	4	737
626330	641/6HS-H	5	737
626331	641/6HS-H	6	737
626332	641/6HS-H	8	737
626342	642/6HS-H	5	737
626195	660/6HS-H	250	737
626196	666/6AHS-H	240	737
626231	705/2MH-H	300	738
626115	750/1-H	407	738
626260	760HB-H	425	738
626289	556A-H	160	738
627332	1107	114	739
627333	1108DS	1 m / 5 kg	739
627334	1108DB	1 m / 5 kg	739
627335	1108DD	1 m / 5 kg	739
627336	1109	6 x 60	739
627337	1109	8 x 80	739
627338	1110	1,07 m / 1,6 kg	739

Capitol 27

Cod produs	Articol	Dimensiune	Pag.
001 0607	001	6 x 7	742
001 0809	001	8 x 9	742
001 1011	001	10 x 11	742
001 1213	001	12 x 13	742
001 1415	001	14 x 15	742
001 1417	001	14 x 17	742
001 1617	001	16 x 17	742
001 1719	001	17 x 19	742
001 1819	001	18 x 19	742
001 1922	001	19 x 22	742
001 1924	001	19 x 24	742
001 2022	001	20 x 22	742
001 2123	001	21 x 23	742
001 2224	001	22 x 24	742
001 2426	001	24 x 26	742
001 2427	001	24 x 27	742
001 2528	001	25 x 28	742
001 2729	001	27 x 29	742
001 2730	001	27 x 30	742
001 2732	001	27 x 32	742
001 3032	001	30 x 32	742
001 3036	001	30 x 36	742
001 3236	001	32 x 36	742
001 3436	001	34 x 36	742
001 3538	001	35 x 38	742
001 3638	001	36 x 38	742
001 3641	001	36 x 41	742
001 4146	001	41 x 46	742
001 4650	001	46 x 50	742

001 5055	001	50 x 55	742
001 5560	001	55 x 60	742
001 6065	001	60 x 65	742
002 0006	002	6	742
002 0007	002	7	742
002 0008	002	8	742
002 0009	002	9	742
002 0010	002	10	742
002 0011	002	11	742
002 0012	002	12	742
002 0013	002	13	742
002 0014	002	14	742
002 0015	002	15	742
002 0016	002	16	742
002 0017	002	17	742
002 0018	002	18	742
002 0019	002	19	742
002 0020	002	20	742
002 0021	002	21	742
002 0022	002	22	742
002 0023	002	23	742
002 0024	002	24	742
002 0025	002	25	742
002 0026	002	26	742
002 0027	002	27	742
002 0028	002	28	742
002 0029	002	29	742
002 0030	002	30	742
002 0032	002	32	742
002 0036	002	36	742
002 0038	002	38	742
002 0041	002	41	742
002 0046	002	46	742
002 0050	002	50	742
002 0055	002	55	742
002 0060	002	60	742
002 0065	002	65	742
023 0010	023	10	742
023 0011	023	11	742
023 0012	023	12	742
023 0013	023	13	742
023 0014	023	14	742
023 0015	023	15	742
023 0016	023	16	742
023 0017	023	17	742
023 0018	023	18	742
023 0019	023	19	742
023 0020	023	20	742
023 0021	023	21	742
023 0022	023	22	742
023 0023	023	23	742
023 0024	023	24	742
023 0027	023	27	742
023 0030	023	30	742
023 0032	023	32	742
023 0036	023	36	742
023 0041	023	41	742
023 0046	023	46	742
004 0607	004	6 x 7	742
004 0810	004	8 x 10	742
004 0911	004	9 x 11	742
004 1315	004	13 x 15	742
004 1417	004	14 x 17	742
004 2123	004	21 x 23	742
004 2426	004	24 x 26	742
004 2528	004	25 x 28	742
004 2729	004	27 x 29	742
004 5055	004	50 x 55	742
004 5560	004	55 x 60	742
004 6065	004	60 x 65	742
003 0607	003	6 x 7	743
003 0809	003	8 x 9	743
003 1011	003	10 x 11	743
003 1213	003	12 x 13	743
003 1415	003	14 x 15	743
003 1416	003	14 x 16	743
003 1417	003	14 x 17	743
003 1617	003	16 x 17	743
003 1618	003	16 x 18	743
003 1719	003	17 x 19	743
003 1819	003	18 x 19	743
003 1922	003	19 x 22	743
003 2022	003	20 x 22	743
003 2123	003	21 x 23	743
003 2224	003	22 x 24	743
003 2426	003	24 x 26	743
003 2427	003	24 x 27	743
003 2528	003	25 x 28	743
003 2629	003	26 x 29	743
003 2729	003	27 x 29	743
003 2730	003	27 x 30	743
003 2732	003	27 x 32	743
003 3032	003	30 x 32	743
003 3236	003	32 x 36	743
003 3641	003	36 x 41	743
003 4146	003	41 x 46	743
003 4650	003	46 x 50	743
003 5060	003	50 x 60	743
047 0024	047	24	743
047 0027	047	27	743
047 0030	047	30	743
047 0032	047	32	743
047 0036	047	36	743
047 0041	047	41	743
047 0046	047	46	743
047 0050	047	50	743
047 0055	047	55	743
047 0060	047	60	743
047 0065	047	65	743
047 0070	047	70	743
047 0075	047	75	743
047 0080	047	80	743
047 0085	047	85	743
047 0090	047	90	743
047 0095	047	95	743
047 0100	047	100	743
047 0105	047	105	743
047 0110	047	110	743
047 0115	047	115	743
047 0120	047	120	743
047 0125	047	125	743
047 0130	047	130	743
047 0135	047	135	743
047 0140	047	140	743
047 0145	047	145	743
047 0150	047	150	743
048 0019	048	19	743
048 0022	048	22	743
048 0024	048	24	743
048 0027	048	27	743
048 0030	048	30	743
048 0032	048	32	743
048 0034	048	34	743
048 0036	048	36	743
048 0038	048	38	743
048 0041	048	41	743
048 0046	048	46	743
048 0050	048	50	743
048 0055	048	55	743
048 0060	048	60	743
048 0065	048	65	743
048 0070	048	70	743
048 0075	048	75	743
048 0080	048	80	743
048 0085	048	85	743
048 0090	048	90	743
048 0095	048	95	743
048 0100	048	100	743
048 0105	048	105	743
048 0110	048	110	743
048 0115	048	115	743
048 0120	048	120	743
048 0125	048	125	743
048 0130	048	130	743
048 0135	048	135	743
048 0140	048	140	743
048 0145	048	145	743
048 0150	048	150	743
048 0155	048	155	743
050 3436	050	34 / 36	744
050 4042	050	40 / 42	744
050 4550	050	45 / 50	744
050 5255	050	52 / 55	744
050 5862	050	58 / 62	744
050 6875	050	68 / 75	744
050 8090	050	80 / 90	744
050 9510	050	95 / 100	744
050 9700	050	110 / 115	744
063 3810	063	38 / 100	744
064 0020	064	20	744
064 0022	064	22	744
064 0024	064	24	744
064 0027	064	27	744
064 0032	064	32	744
065 0380	065	380	744
043 0380	043	380	744
069 0400	069	16x400	744
060 0015	060	1.5	744
060 0020	060	2	744
060 0025	060	2.5	744
060 0030	060	3	744
060 0040	060	4	744
060 0050	060	5	744
060 0060	060	6	744
060 0070	060	7	744
060 0080	060	8	744
060 0090	060	9	744
060 0100	060	10	744
060 0110	060	11	744
060 0120	060	12	744
060 0130	060	13	744
060 0140	060	14	744
060 0170	060	17	744
060 0180	060	18	744
060 0190	060	19	744
060 0220	060	22	744
060 0240	060	24	744
060 0270	060	27	744
060 0300	060	30	744
060 0320	060	32	744
060 0360	060	36	744
005 0008	005	8	744
005 0009	005	9	744
005 0010	005	10	744
005 0011	005	11	744
005 0012	005	12	744
005 0013	005	13	744
005 0014	005	14	744
005 0017	005	17	744
005 0019	005	19	744
005 0022	005	22	744
005 0024	005	24	744
005 0027	005	27	744
005 0030	005	30	744
005 0032	005	32	744
005 0036	005	36	744
005 0041	005	41	744
100 1000	100	2.0-12.0-10	745
012 2000	012	200	745
012 2500	012	250	745
012 3000	012	300	745
012 3800	012	380	745
061 3500	061	350	745
061 4500	061	450	745
061 6000	061	600	745
061 9000	061	900	745
062 0004	062	M 4	745
062 0005	062	M 5	745
062 0006	062	M 6	745
062 0008	062	M 8	745
062 0010	062	M 10	745
062 0012	062	M 12	745
062 0016	062	M 16	745
062 0020	062	M 20	745
062 0024	062	M 24	745
042 0812	042	8	745
042 0912	042	9	745
042 1012	042	10	745
042 1112	042	11	745
042 1212	042	12	745
042 1312	042	13	745
042 1412	042	14	745
042 1512	042	15	745
042 1612	042	16	745
042 1712	042	17	745
042 1812	042	18	745
042 1912	042	19	745
042 2012	042	20	745
042 2112	042	21	745
042 2212	042	22	745
042 2312	042	23	745
042 2412	042	24	745
042 2512	042	25	745
042 2612	042	26	745
042 2712	042	27	745
042 2812	042	28	745
042 2912	042	29	745
042 3012	042	30	745
042 3212	042	32	745
042 7012	042	5/16"	745
042 7112	042	3/8"	745
042 7212	042	7/16"	745
042 7312	042	1/2"	745
042 7412	042	9/16"	745

042 7512	042	19/32"	745
042 7612	042	5/8"	745
042 7712	042	11/16"	745
042 7812	042	3/4"	745
042 7912	042	25/32"	745
042 8012	042	13/16"	745
042 8112	042	7/8"	745
042 8212	042	15/16"	745
042 8312	042	1"	745
042 8412	042	1.1/16"	745
042 8512	042	1.1/8"	745
042 8612	042	1.1/4"	745
042 8712	042	1.1/2"	745
042 1034	042	10	745
042 1134	042	11	745
042 1234	042	12	745
042 1334	042	13	745
042 1434	042	14	745
042 1534	042	15	745
042 1634	042	16	745
042 1734	042	17	745
042 1834	042	18	745
042 1934	042	19	745
042 2034	042	20	745
042 2134	042	21	745
042 2234	042	22	745
042 2334	042	23	746
042 2434	042	24	746
042 2534	042	25	746
042 2634	042	26	746
042 2734	042	27	746
042 2834	042	28	746
042 2934	042	29	746
042 3034	042	30	746
042 3234	042	32	746
042 3434	042	34	746
042 3534	042	35	746
042 3634	042	36	746
042 3834	042	38	746
042 4134	042	41	746
042 4634	042	46	746
042 5034	042	50	746
042 5534	042	55	746
042 5834	042	58	746
042 6034	042	60	746
042 6534	042	65	746
042 7034	042	70	746
042 7534	042	75	746
042 8034	042	80	746
042 7001	042	70	746
042 7501	042	75	746
042 8001	042	80	746
042 8501	042	85	746
042 9001	042	90	746
042 1001	042	100	746
423 0012	423	1/2"	746
423 0025	423	1"	746
423 0034	423	3/4"	746
422 0012	422	1/2"	746
422 0034	422	3/4"	746
425 0012	425	1/2"	746
425 0034	425	3/4"	746
421 0012	421	1/2"	746
421 0034	421	3/4"	746
426 0012	426	1/2"	746
426 0121	426	1/2"	746
426 0034	426	3/4"	746
426 0134	426	3/4"	746
424 0012	424	1/2"-3/4"	746
424 0034	424	3/4"-1/2"	746
300 1000	300	10 - 32 / 16 piese	747
006 2000	006	200	747
066 1600	066	160	747
007 1600	007	160	747
008 1600	008	160	747
036 2000	036	200	747
068 1800	068	180	747
013 2400	013	240	747
014 2100	014	210	747
067 2800	067	280	748
021 0150	021	4	748
021 0180	021	5	748
021 0220	021	6	748
021 0250	021	6	748
021 0280	021	9	748
021 0300	021	10	748
059 1150	059	PH 1	748
059 2200	059	PH 2	748
059 3250	059	PH 3	748
059 4300	059	PH 4	748
045 5400	045	20x540	748
072 2800	072	350	748
040 0255	040	255	748
044 0030	044	30	748
044 0040	044	40	748
044 0060	044	60	748
044 0080	044	80	748
044 0110	044	100	748
071 0040	071	40	748
071 0060	071	60	748
071 0080	071	80	748
071 0100	071	100	748
073 3150	073	315	748
074 3100	074	310	748
055 8000	055	80	749
070 5000	070	440	749
053 1000	053	100	749
053 1500	053	150	749
076 1000	076	100	749
076 1500	076	150	749
077 4800	077	80	749
015 0300	015	300	749
015 0500	015	500	749
015 0800	015	800	749
015 1000	015	1000	749
015 1500	015	1500	749
015 2000	015	2000	749
018 0050	018	500	749
018 0100	018	1000	749
018 0150	018	1500	749
018 0200	018	2000	749
018 0300	018	3000	749
018 0400	018	4000	749
018 0500	018	5000	749
018 0600	018	6000	749
018 0800	018	8000	749
018 1000	018	10000	749
019 0500	019	500	749
017 0150	017	150	749
017 0300	017	300	749
017 0500	017	500	749
017 0800	017	800	749
017 1000	017	1000	749
017 1500	017	1500	749
017 2000	017	2000	749
016 0300	016	300	750
016 0500	016	500	750
016 0900	016	900	750
046 1000	046	1000	750
024 0150	024	150	750
024 0175	024	175	750
024 0200	024	200	750
024 0250	024	250	750
024 0300	024	300	750
024 0350	024	350	750
024 0400	024	400	750
024 0450	024	450	750
026 0150	026	150	750
026 0200	026	200	750
026 0250	026	250	750
026 0300	026	300	750
026 0350	026	350	750
026 0400	026	400	750
026 0450	026	450	750
049 2650	049	265	750
241 0150	241	150	750
241 0175	241	175	750
241 0200	241	200	750
241 0250	241	250	750
241 0300	241	300	750
241 0350	241	350	750
241 0400	241	400	750
241 0450	241	450	750
041 1050	041	50	750
041 1325	041	25	750
041 1330	041	30	750
041 1340	041	40	750
041 2040	041	40	750
041 4040	041	40	750
083 0039	083	390	750
087 4500	087	30	750
084 0450	084	25.4	750
088 0140	088	30	751
085 3300	085	40	751
085 4300	085	40	751
085 5300	085	40	751
081 0020	081	2	751
081 0030	081	3	751
081 0040	081	4	751
081 0050	081	5	751
081 0060	081	6	751
081 0080	081	8	751
081 0100	081	10	751
081 0120	081	12	751
081 0160	081	16	751
081 0200	081	20	751
081 0250	081	25	751
082 0300	082	2	751
082 0400	082	3	751
082 0500	082	4	751
082 0600	082	5	751
082 0700	082	6	751
082 0800	082	8	751
082 1000	082	10	751
082 1200	082	12	751
082 1600	082	16	751
037 0100	037	100	751
037 0145	037	145	751
090 1900	090	140	751
089 0300	089	300	751
089 0450	089	450	751
079 0450	079	450	751
079 0600	079	600	751
079 0750	079	750	751
079 0900	079	900	751
080 0450	080	450	751
080 0600	080	600	751
080 0750	080	750	751
080 0900	080	900	751
039 0650	039	650	751
039 0800	039	800	751
039 1000	039	1000	751
039 1250	039	1250	751
039 1500	039	1500	751
094 0540	094	120 x 200	752
075 1800	075	180	752
034 5600	034	560	752
341 5800	341	580	752
020 9000	020	900	752
033 1000	033	1000	752
033 1500	033	1500	752
091 1300	091	220 x 310	752
093 1300	093	250 x 280	752
095 3000	095	300	752
054 3500	054	350	752
541 1800	541	67 x 180	752
096 0150	096	150	752
030 0550	030	300	753
098 0300	098	300	753
027 0090	027	90	753
028 1400	028	14	753
028 2500	028	25	753
035 0180	035	80	753
035 0250	035	120	753
035 0430	035	270	753
099 0600	099	600	753
029 0500	029	500	753
291 0528	291	5 x 28	753
291 0838	291	8 x 38	753
291 1254	291	12 x 54	753
200 1000	200	4	753
600 1000	600	21	754
800 3000	800	32	754
700 2000	700	19	754
400 2000	400	13	754
500 3000	500	26	754
SW0024A	Safewrench®	24	755
SW0027A	Safewrench®	27	755
SW0030A	Safewrench®	30	755
SW0032A	Safewrench®	32	755
SW0036A	Safewrench®	36	755
SW0041A	Safewrench®	41	755
SW0046A	Safewrench®	46	755
SW0050A	Safewrench®	50	755
SW0055A	Safewrench®	55	755
SW0060A	Safewrench®	60	755
SW0065A	Safewrench®	65	755
SW0070A	Safewrench®	70	755
SW0075A	Safewrench®	75	755
SW1031B	Safewrench®	1.1/4"	755
SW1036B	Safewrench®	1.7/16"	755
SW1041B	Safewrench®	1.5/8"	755
SW1046B	Safewrench®	1.13/16"	755
SW1050B	Safewrench®	2"	755

SW1055B	Safewrench®	2.3/16"	755
SW1060B	Safewrench®	2.3/8"	755
SW1065B	Safewrench®	2.9/16"	755
SW1070B	Safewrench®	2.3/4"	755

Capitol 28

Cod produs	Articol	Dimensiune	Pag.
624137	1011CEV4		760
621757	1011BEV4		761
624138	1011DEV6		762
621756	1011AEV6		763
623942	1012A		764
621049	964/1SOS	6 - 32 / 12	765
620881	vl964/1SOS	188	765
621050	964/1ASOS	6 - 32 / 12	765
620882	vl964/1ASOS	188	765
620885	vl964/2BSOS	188	765
621051	964/2SOS	8 - 24 / 12	765
621052	964/2ASOS	8 - 24 / 12	765
620884	vl964/2ASOS	188	765
621053	964/2BSOS	8 - 24 / 12	765
620883	vl964/2SOS	188	765
621054	964/2CSOS	6 - 32 / 26	765
621219	vl964/2CSOS	374	765
621563	964/2DSOS	27	765
621507	vl964/2DSOS	374	765
621055	964/3SOS	6 - 22 / 8	766
620886	vl964/3SOS	188	766
623317	964/3ASOS	8 - 32 / 9	766
623316	vl964/3ASOS	188	766
621056	964/4SOS	21 - 32 / 4	766
620887	vl964/4SOS	188	766
621057	964/5SOS	45	766
620888	vl964/5SOS	188	766
621185	964/5S12SOS	45	766
621237	vl964/5S12SOS	188	766
621058	964/6SOS	3	766
620889	vl964/6SOS	188	766
621059	964/7SOS	2	767
620890	vl964/7SOS	188	767
621221	vl964/9BSOS	188	767
621061	964/8ASOS	19 - 60 - 180 / 4	767
621220	vl964/8ASOS	188	767
621062	964/9SOS	8	767
620892	vl964/9SOS	188	767
621063	964/9BSOS	6	767
621560	964/9CSOS	8	767
621504	vl964/9CSOS	188	767
621561	964/9DSOS	8	767
621505	vl964/9DSOS	188	768
621064	964/10SOS	5	768
620893	vl964/10SOS	188	768
620894	vl964/13SOS	188	768
621067	964/13SOS	3 - 10 / 6	768
621068	964/13ASOS	3 - 10 / 6	768
621222	vl964/13ASOS	188	768
621069	964/14SOS	TX 15 - TX 40 / 6	769
621223	vl964/14SOS	188	769
621070	964/15SOS	9	769
620895	vl964/15SOS	188	769
621071	964/16SOS	18	769
621224	vl964/16SOS	188	769
621072	964/17SOS	8 - 22 / 6	769
621225	vl964/17SOS	188	769
621073	964/18ASOS	8 - 19 / 10	769
621226	vl964/18ASOS	188	769
621074	964/18BSOS	8 - 19 / 10	769
621227	vl964/18BSOS	188	769
621075	964/19SOS	29	770
620896	vl964/19SOS	374	770
621186	964/19S12SOS	29	770
621238	vl964/19S12SOS	374	770
621077	964/22SOS	60	770
620897	vl964/22SOS	564	770
621079	964/24SOS	3	770
621230	vl964/24SOS	188	770
621080	964/25SOS	6 - 22 / 23	770
620898	vl964/25SOS	188	770
621082	964/26 1/2SSOS	5	771
620902	vl964/26 1/2SSOS	188	771
621081	964/26BSOS	5	771
620901	vl964/26BSOS	188	771
621083	964/26SSOS	5	771
620903	vl964/26SSOS	188	771
621084	964/27SOS	8 - 19 / 10	771
621231	vl964/27SOS	188	771
621387	964/28SOS	60	771
621377	vl964/28SOS	564	771
623932	964/29ASOS	28	772
623933	VL964/29ASOS	564	772
621389	964/30SOS	96	772
621390	964/31SOS	79	772
621391	964/32SOS	14	772
621381	vl964/32SOS	564	772
621379	vl964/30SOS	564	772
621380	vl964/31SOS	564	772
623936	964/32ASOS	14	772
623937	vl964/32ASOS	564	772
621392	964/33SOS	30	772
621382	vl964/33SOS	564	772
621393	964/34SOS	18	773
621383	vl964/34SOS	564	773
621394	964/35SOS	63	773
621384	vl964/35SOS	564	773
621395	964/36SOS	88	773
621385	vl964/36SOS	564	773
621396	964/37SOS	28	773
623987	964/46SOS	36	773
623968	vl964/46SOS	564	773
623988	964/47SOS	67	773
623969	vl964/47SOS	564	773
621386	vl964/37SOS	564	773
623989	964/48SOS	11	774
623970	vl964/48SOS	564	774
623990	964/49SOS	13	774
623971	vl964/49SOS	564	774
623991	964/50SOS	57	774
623998	vl964/50SOS	564	774
623992	964/51SOS	14	774
623999	vl964/51SOS	564	774
623993	964/52SOS	8	774
624011	vl964/52SOS	564	774
623995	964/53SOS	22	774
624013	vl964/53SOS	564	774
623994	964/54SOS	17	775
624012	vl964/54SOS	564	775
620873	vl964ECO3	498	775
620871	vl964ECO2	498	775
621287	964ECO2	8 - 24 / 12	775
620874	vl964ECO5	498	775
621288	964ECO2A	8 - 24 / 12	775
620872	vl964ECO2A	498	775
621289	964ECO3	6 - 22 / 8	775
621290	964ECO5	45	775
621291	964ECO6	4	775
620875	vl964ECO6	498	775
621292	964ECO9	8	775
620876	vl964ECO9	498	775
621293	964ECO10	5	775
620877	vl964ECO10	498	776
621294	964ECO19	10 - 32 / 23	776
620878	vl964ECO19	498	776
621295	964ECO26 1/2S	4	776
620879	vl964ECO26 1/2S	498	776
608140	1000A	171	776
604577	1000AC	21	776
611884	1000AD	343	777
608141	1000B	192	777
608143	1000D	147	778
608145	1000F	129	778
608146	1000G	110	779
608148	1000K	80	779
608149	1000L	75	779
609329	1000S	51	780
609330	1000T	53	780
609331	1000V	49	780
623943	1013A	45	781
616643	911/5ak1	65	782
616644	911/5ak2	43	782
616645	911/5ak3	80	782
617449	TSE3	54	783
612674	1000 ak5	40	783
612780	1000 ka 7	19	783

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Cod produs	Articol	Dimensiune	Pag.
617100	920PLUS1	810	787
619711	920.1PLUS		787
617823	920ES3		787
619446	920ES4A		787
621019	920ES7		787
619525	920ES8		787
621896	964ASOS		787
621897	964BSOS		787
617101	920PLUS2	810	787
619884	940EV1	720	788
620417	940.1EV		788
620416	940EVS1		788
620418	940EVS4		788
620419	940EVS7		788
608923	940ES1		788
608924	940ES2		788
621436	940EV3	720	788
619885	940EV4	720	788
619886	940EV6	720	789
625000	940EV4BLOCK	800	789
608925	940ES3		789
622597	940ES3A		789
608969	940ES5		789
608970	940ES6		789
608971	940ES7		789
608972	940ES8		789
608973	940ES9		789
622598	940ES10		789
621896	964ASOS		789
621897	964BSOS		789
608542	940E1	720	790
612138	940E4/1L	720	790
608544	940E3	720	790
608545	940E4	720	790
608547	940E6	720	790
608923	940ES1		791
608924	940ES2		791
608925	940ES3		791
622597	940ES3A		791
608968	940ES4		791
619445	940ES4A		791
608969	940ES5		791
608970	940ES6		791
608971	940ES7		791
608972	940ES8		791
622598	940ES10		791
620416	940EVS1		791
620418	940EVS4		791
620419	940EVS7		791
621896	964ASOS		791
621897	964BSOS		791
608925	940ES3		791
622597	940ES3A		791
621896	964ASOS		791
621897	964BSOS		791
611757	940E9	720	791
627351	940T	1072	791
626800	940H2BLOCK	1182	791
615510	940H1	1080	792
615511	940H2	1080	792
621442	940.1H		792
621896	964ASOS		792
621897	964BSOS		792
608969	940ES5		792
608971	940ES7		792
608923	940ES1		792
608925	940ES3		792
608924	940ES2		792
622597	940ES3A		792
610932	940HS3		792
622882	940.2H2		792
617269	940ECOS1		792
618460	940ECOES7		792
615512	940H3	1080	792
617227	940ECO	700	792
613099	D11	585x612x75	793
613098	D12	585x612x153	793
615998	D13	585x405x75	793
615999	D14	585x405x153	793
616000	D15	415x365x75	793
616001	D16	415x365x153	793
619521	D17	585x412x75	793
619520	D18	585x412x155	793
620564	D20	585x413x75	793
620563	D19	585x413x153	793
620247	D20ECO	520x313x75	793
620246	D19ECO	520x313x155	793
621663	D939EV1	585x323x75	793
621664	D939EV2	585x323x153	793
610165	K1	180°	793
610233	K1S	90° + 180°	793
615004	K7	90°	793
619522	K8	180°	793
620562	K9	180°	793
610174	R4	490x66x90	793
616002	R5	390x70x25	793
620565	R7	375x98x40	793
610180	T5	560x380	793

615247	T6	560x398	793
616003	T7	391x341	793
616004	T8	391x359	794
616005	T9	560x591	794
616006	T10	560x608	794
616007	T11	589x437	794
620566	T12	694x434	794
620568	T13	560x380	794
620569	T14	560x405	794
620939	T920	560x380	794
621665	T939EV1	560x294	794
621666	T939EV2	560x317	794
610181	V1	400	794
610182	V2	350	794
603664	V3	400	794
613100	V4	600	794
616008	V5	700	794
619551	V6	300	794
610183	W1	100	794
610184	W2	100	794
610185	W3	100	794
610189	W7	160	794
610190	W8	125	794
610191	W20	100	794
610195	W24	125+160	794
619524	W26	125	794
612328	946A	1500	795
612220	946AC	1500	795
612331	946ACR	1500	795
612329	946C	1500	795
613097	946D	665	795
612330	946CR	1500	795
621573	946G	1000	795
621448	946T	2050	795
625622	621448	475	796
625623	990ND8	475	796
625624	990NDD2	475	796
625620	990WD6	663	796
625621	990WD8	663	796
625625	990WDD2	663	796
625643	990NDU	60	797
625743	990NDU	90	797
625644	990NDU	120	797
627053	990NDU	30	797
625641	990WDU	60	797
625742	990WDU	90	797
625642	990WDU	120	797
627052	990WDU	30	797
625627	990NDH	475	797
625626	990NDH	475	797
625640	990NDP	370	797
625639	990WDP	558	797
625630	990TW	1500	797
625631	990TW	2000	797
625632	990TW	2500	797
625633	990TWS	1503	798
625634	990TWS	2003	798
625632	990TWS	2503	798
625628	990L	105	798
625629	990LA	100	798
625636	990C	1500	798
625637	990C	2000	798
625638	990C	2500	798
625652	990NDH	982	798
625653	990NDH	1202	798
625654	990NDH	1436	798
625648	990SL	1155	798
625650	990SM	1155	798
625649	990SR	1155	798
625651	990SC	1155	798
625672	990SHELF	1000	798
625673	990SHELF	1250	798
625674	990SHELF	1500	798
625660	990HPB	1000	799
625661	990HPB	1250	799
625662	990HPB	1500	799
609478	997.1	35	799
609479	997.1	50	799
609480	997.1	80	799
609447	997.1	100	799
610559	997.1	150	799
610560	997.1	200	799
625656	990HPC	2	799
625657	990HPC	2	799
625658	990HPC	4	799
625663	990HL	999	799
625664	990HL	1249	799
625665	990HL	1499	799
625748	PB.990HPB	160	799
625749	PB.990HPB	235	799
625750	PB.990HPB	350	799
625666	990LIGHT	600	799
625667	990LIGHT	900	799
625671	990LIGHT	1200	799
625751	990MA1	1155x2000x750 mm	800
625753	900MA3	1155x2000x750 mm	800
625752	990MB2	1155x2000x750 mm	800
625754	990MC4	1155x2000 mm	800
625755	990MC5	1155x2000 mm	801
625757	990MA7	1110x1500x750 mm	801
625756	990MA6	1155x1500x750 mm	801
625758	990MC8	1155x1500 mm	801
625759	990MC9	1155x1500 mm	802
625761	990MA11	1155x1500x750 mm	802
625760	990MA10	1155x2500x750 mm	802
625585	vl990WD1	562	804
625588	vl990WD4	562	804
625591	vl990ND3	374	804
625586	vl990WD2	562	804
625589	vl990ND1	374	804
625592	vl990ND4	374	804
626419	990IN4		804
625587	vl990WD3	562	804
625590	vl990ND2	374	804
625618	vl990WD	562	804
625619	vl990ND	374	804
627655	990MA17		805
627656	990MA18		806
611784	939/5E	685	807
608925	940ES3		807
622597	940ES3A		807
605896	960/1	700	807
605897	960/2	840	807
605898	960/3	910	807
603673	960/6	550	807
612989	960/6	620	807
620556	939/3EV	690	808
615179	938/3V	695	808
621400	939EVS3		808
612215	948E1	700	808
612908	948E1.1	2600	808
620420	939/4EV	690	808
612216	948E2	700	808
612909	948E2.1	2600	808
622671	949	695	809
622672	949.1	695	809
622674	949.3	689	809
622673	949.2	695	809
612910	948E3.1	1200	810
622816	955IND1	715	810
622592	975	632	810
605160	977/1	6-32/12	810
605161	977/2	6-22/17	810
605162	977/3	6-22/17	810
605163	977/4	6 - 32/12	810
607386	977/5	6 - 32/26	810
607387	977/6	6 - 32/26	811
608355	977/7	890	811
609950	978E	230	811
609951	978BICR	330	811
609952	978VDE	330	811
621375	979	500	811
621018	ST.UNI1	670	811
611898	980E	530	811
612211	980F	410	811
612212	980G	530	811
612653	980P2	240	812
615083	980P2S	240	812
622675	980P3A	283	812
605114	996/2	900	812
607154	997	1192	812
610453	997.2	845	812
617115	950/2	350	813
617175	950/3V	1000	813
617188	950.1	24	813
617177	950.3	2170	813
616652	950/6	1000	813
617116	950/9	1000	813
617187	950.4	150	813
617183	K950COMB	216	813
601909	911/5	460	814
601910	912/1	560	814
601911	912/3	560	814
601912	912/5	560	814
608538	911/5	460	814
601985	912/1	460	814
607137	915/5	560	815
701985	7914/5	450	815
622694	911VSOS	95	815
622696	912VSOS	95	815
621633	969L	510	815
621631	969S	485	815
06 5040 8019	970 U1	460	815
00 5111 8019	00 5111 8019	460x160x310 mm	816
10 5122 8019	10 5122 8019	460x180x310 mm	816
00 5182 8019	00 5182 8019	470x200x360 mm	816
00 5075 8019	00 5075 8019	470x200x360 mm	816
623152	969.5S	1476	817
621643	969.4S	645	817
623153	969.5L	1587	817
621645	969.5L	825	817
602552	909/1	350	817
624058	909/1PES	350	817
601939	909	420	817
624057	909PES	420	817
900635	7909/1	510	817
900636	7909/2	400	817
900637	7909/3	600	818
900463	900463	470	818
71023	71023	200	818
71024	71024	540	818
900462	900462	600	818
900459	900459	130	818
900460	900460	105	818
900461	900461	105	818
619765	917	514	819
619767	917	394	819
A.X. 01	A.X. 01	173	819
A.X. 02	A.X. 02	173	819
A.X. 03	A.X. 03	287	819
A.X. 04	A.X. 04	350	819
A.P. 01	A.P. 01	173	819
A.P. 02	A.P. 02	227	819
A.P. 03	A.P. 03	287	819
A.P. 04	A.P. 04	350	819
S.M. 01	S.M. 01	395	819
S.M. 02	S.M. 02	458	819
S.M. 03	S.M. 03	535	819
M.L. 03	M.L. 03	230	820
M.L. 04	M.L. 04	265	820
M.L. 05	M.L. 05	277	820
C.P. 01	C.P. 01	270	820
P.E. 01	P.E. 01	130	820
P.E. 02	P.E. 02	175	820
P.E. 03	P.E. 03	230	820
P.E. 04	P.E. 04	265	820
P.O. 06	P.O. 06	135	821
P.O. 07	P.O. 07	180	821
P.O. 05	P.O. 05	230	821
P.O. 08	P.O. 08	265	821
P.S. 06	P.S. 06	320	821
P.S. 07	P.S. 07	410	821
P.S. 05	P.S. 05	480	821
P.S. 08	P.S. 08	550	821
P.O. 09M	P.O. 09M	600	821
P.O. 10M	P.O. 10M	150	821
P.M. 01	P.M. 01	405	822
P.M. 02	P.M. 02	405	822
T.K. 50	T.K. 50	224	822
T.K. 70	T.K. 70	330	822
T.K. 100	T.K. 100	500	822
621620	981PBS1	197	822
619768	981PBM1	197	822
621621	981PBS2	307	822
619769	981PBM2	307	822
621622	981PBS3	346	822
619771	981PB4	393	822
619770	981PBM3	346	822
621618	981PBS5	244	823
621619	981PBM5	244	823
621426	982PB2	145	823
O.R. 06	O.R. 06	165	823
O.R. 07	O.R. 07	265	823
P.P. 01	P.P. 01	320	823
P.P. 02	P.P. 02	380	823
P.P. 03	P.P. 03	480	823
P.P. 04	P.P. 04	300	823
P.P. 05	P.P. 05	400	823
P.C. 010N (negru)	P.C. 010	50	824
P.C. 010B (albastru)	P.C. 010	50	824
P.C. 013N (negru)	P.C. 013	80	824
P.C. 013B (albastru)	P.C. 013	80	824
P.L. 02	P.L. 02	315	824

P.L. 05	P.L. 05	315	824
P.H. 02N (negru)	P.H. 02	450	824
P.H. 02B (albastru)	P.H. 02	450	824
P.C. 011N (negru)	P.C. 011	105	824
P.C. 011B (albastru)	P.C. 011	105	824
P.C. 014N (negru)	P.C. 014	110	824
P.C. 014B (albastru)	P.C. 014	110	824
P.L.03	P.L.03	315	824
P.L. 06	P.L. 06	315	824
P.H. 03N (negru)	P.H. 03	340	824
P.H. 03B (albastru)	P.H. 03	340	824
P.C. 012N (negru)	P.C. 012	220	824
P.C. 012B (albastru)	P.C. 012	220	824
P.L. 01	P.L. 01	315	824
P.L. 04	P.L.04	315	824
P.H. 01N (negru)	P.H. 01	225	824
P.H. 01B (albastru)	P.H. 01	225	824
P.H. 04N (negru)	P.H. 04	425	824
P.H. 04B (albastru)	P.H. 04	425	824
P.H. 05N (negru)	P.H. 05	112	825
P.H. 05B (albastru)	P.H. 05	112	825
P.H. 06N (negru)	P.H. 06	450	825
P.H. 06B (albastru)	P.H. 06	450	825
MAS 10	MAS 10	420	825
S.C. 02N (negru)	S.C. 02	102	825
S.C. 02R (rosu)	S.C. 02	102	825
S.C. 02B (albastru)	S.C. 02	102	825
S.C. 04N (negru)	S.C. 04	215	825
S.C. 04R (rosu)	S.C. 04	215	825
S.C. 04B (albastru)	S.C. 04	215	825
MAS 20	MAS 20	420	825
S.C. 03N (negru)	S.C. 03	150	825
S.C. 03R (rosu)	S.C. 03	150	825
S.C. 03B (albastru)	S.C. 03	150	825
S.C. 05N (negru)	S.C. 05	304	825
S.C. 05R (rosu)	S.C. 05	304	825
S.C. 05B (albastru)	S.C. 05	304	825
MAS 30	MAS 30	880	825
CMU 10	CMU 10	510	826
A.D. 04	A.D. 04	900	826
K.A.D. 02	K.A.D. 02	700	826
A.D. 02	A.D. 02	700	826
K.A.D. 01	K.A.D. 01	900	826
K.A.D. 03	K.A.D. 03	700	826
A.D. 03	A.D. 03	700	826
K.A.D. 04	K.A.D. 04	900	826
A.R. 03	A.R. 03	1000	827
C.D. 11	C.D. 11	1420	827
MAK 20	MAK 20	680	827
A.R. 04	A.R. 04	930	827
C.D. 13	C.D. 13	1430	827
MAK 30	MAK 30	880	827
A.R. 05	A.R. 05	1060	827
C.D. 14	C.D. 14	1440	827
CKD. 11	CKD. 11	1150	827
CKD. 13	CKD. 13	1150	828
CKM. 40	CKM. 40	1540	828
MAT 30	MAT 30	680	828
CKD. 14	CKD. 14	1150	828
CKM. 50	CKM. 50	1560	828
DP.01	DP.01	590	828
CKM. 30	CKM. 30	1520	828
MAT 20	MAT 20	680	828
MAX430PU	MAX430PU	464x366x176 mm	829
MAX505PU	MAX505PU	555x428x211 mm	829
MAX430TC	MAX430TC	464x366x176 mm	829
MAX505TC	MAX505TC	555x428x211 mm	829
616506	995D	950	832
616508	995DL	950	832
616507	995D1	935	832
616509	995D1L	935	832
620570	995DNL	950	832
620571	995DN1	935	832
620572	995DN1L	935	832
617809	995VD	1070	833
617810	995VDL	1070	833
617811	995VD1	1030	833
617812	995VD1L	1030	833
617813	995ZD	1050	833
617814	995ZDL	1050	833
620573	995VDN	1070	833
620574	995VDNL	1070	833
620575	995ZDN	1050	833
620576	995ZDNL	1050	833
616621	995CH	950	834
616622	995CP1	475	834
616623	995CP2	950	834
616624	995CP3	950	834
620560	995.2A	2180	834
621484	995.0MD	320	835
621485	995.1MD	320	835
621491	995.6MD7	7	835
621486	995.2MD	315	835
621487	995.3MD5,5	5,5	835
621488	995.3MD6,5	6,5	835
621490	995.5MD5	5	835
621489	995.4MD2	314	835
621484	995.0MD	320	835
621486	995.2MD	315	835
623150	995.7MDSO-SPLIP6	40	835
623149	995.7MDSOSWP6	40	835
621492	995.7MD-SOS85P24	30	835
621493	995.7MD-SOS100P12	28	835
621494	995.7MD-SOS110P12	30	835
621495	995.7MD-SOS120P10	27	835
621496	995.7MDSOSEP40	29	835
621487	995.3MD5,5	5,5	835
621488	995.3MD6,5	6,5	835
621607	995.0MD1	480	836
621609	995.1MD1	472	836
621614	995.61MD12	12	836
621611	995.2MD1	475	836
621487	995.3MD5,5	5,5	836
621488	995.3MD6,5	6,5	836
621490	995.5MD5	5	836
621613	995.41MD2	470	836
621607	995.0MD1	480	836
621611	995.2MD1	475	836
623150	995.7MDSO-SPLIP6	40	836
623149	995.7MDSOSWP6	40	836
621492	995.7MD-SOS85P24	30	836
621493	995.7MD-SOS100P12	28	836
621494	995.7MD-SOS110P12	30	836
621495	995.7MD-SOS120P10	27	836
621496	995.7MDSOSEP40	29	836
621487	995.3MD5,5	5,5	836
621488	995.3MD6,5	6,5	836
621608	995.0MD2	960	837
621610	995.1MD2	944	837
623203	995.62MD24	24	837
621612	995.2MD2	950	837
621490	995.5MD5	5	837
621613	995.41MD2	314	837
621608	995.0MD2	960	837
621612	995.2MD2	950	837
623150	995.7MDSO-SPLIP6	40	837
623149	995.7MDSOSWP6	40	837
621492	995.7MD-SOS85P24	30	837
621493	995.7MD-SOS100P12	28	837
621494	995.7MD-SOS110P12	30	837
621495	995.7MD-SOS120P10	27	837
621496	995.7MDSOSEP40	29	837
623914	607SN1	84	838
623915	607SN2	162	838
623916	607MD1	86	838
623917	607MD2	78	838
623919	607MD4	TX 6 - TX 45 / 82	838
623920	607MD5	5 - 13 / 46	838
623912	978PR3K	457	839
623911	ST.NKS3	350	839
623923	721PS	457	839
622577	978LS	201	839
622602	978MLH	18	839
621912	976A	612	839
609478	997.1	35	840
609479	997.1	50	840
609480	997.1	80	840
609447	997.1	100	840
610559	997.1	150	840
610560	997.1	200	840
617085	997.3	150	840
623315	OP1.4/2		840
622592	975	632	840
621018	ST.UNI1	670	840
623346	997.4	150	840
623347	997.4	200	840
623348	997.4	250	840
623349	997.4	300	840
623784	978SNN.MD1	490	840
623785	978SNV.MD1	582	840
621375	979	500	840
621846	1849	92	841
609951	978BICR	330	841
609952	978VDE	330	841
609950	978E	230	841
623750	539DEMO	1	841
611898	980E	530	841
612211	980F	410	841
612212	980G	530	841
623751	DEMO1	1	841
612653	980P2	240	841
615083	980P2S	240	841
622675	980P3A	283	841
621667	1830	50	842
621668	1830	52	842
621669	1830	54	842
621670	1830	56	842
621671	1830	58	842
621672	1830	60	842
621673	1830	62	842
621674	1830	64	842
621675	1831	50	842
621676	1831	52	842
621677	1831	54	842
621678	1831	56	842
621679	1831	58	842
621680	1831	60	842
621681	1831	62	842
621682	1831	64	842
621683	1832	50	842
621684	1832	52	842
621685	1832	54	842
621686	1832	56	842
621687	1832	58	842
621688	1832	60	842
621689	1832	62	842
621690	1832	64	842
616497	AP1	350	842
621982	1863	500	842
618379	1805	38	843
618380	1805	39	843
618381	1805	40	843
618382	1805	41	843
618383	1805	42	843
618384	1805	43	843
618385	1805	44	843
618386	1805	45	843
618387	1805	46	843
618388	1805	47	843
619906	1807	38	843
619907	1807	39	843
619908	1807	40	843
619909	1807	41	843
619910	1807	42	843
619911	1807	43	843
619912	1807	44	843
619913	1807	45	843
619914	1807	46	843
619915	1807	47	843
618389	1805L	38	843
618390	1805L	39	843
618391	1805L	40	843
618392	1805L	41	843
618393	1805L	42	843
618394	1805L	43	843
618395	1805L	44	843
618396	1805L	45	843
618397	1805L	46	843
618398	1805L	47	843
619916	1807L	38	843
619917	1807L	39	843
619918	1807L	40	843
619919	1807L	41	843
619920	1807L	42	843
619921	1807L	43	843
619922	1807L	44	843
619923	1807L	45	843
619924	1807L	46	843
619925	1807L	47	843

Reguli de bună practică de distribuție

Prezentele reguli se aplică la nivelul rețelei de distribuitori autorizați ai Centrului National de Scule, în tot lanțul de distribuție, destinatari generici fiind vânzătorii și cumpărătorii: furnizorul extern (producător) și reprezentanța acestuia, dealer, subdealer, toate verigile intermediare ale distribuției până la clientul final.

Prețuri, ofertă, comandă, livrare

Catalogul industrial CNS 2018-2020 cuprinde prețurile de lista valabile în rețeaua de distribuție.
Oferta vânzătorului este angajantă și produce efecte de la data indicată ca valabilitate a ofertei.
La confirmarea ofertei de către cumparator și returnarea ofertei confirmate înapoi la vanzator în termenul de valabilitate al acesteia, oferta devine comandă angajantă. În cazul în care cumpărătorul emite o comandă, aceasta se consideră o ofertă fermă de a contracta.
Pentru exportul produselor trebuie luat în amonte acordul furnizorului extern prin reprezentanța acestuia.
Produsele se vor livra potrivit cantităţilor si sortimentelor prevăzute în comenzi. Conformitatea produselor cu standardele, documentația de referință și pagina web, este garantată.
Termenul de finalizare a comenzilor în vederea expedierii: imediat pentru produsele pe stoc, iar pentru produsele care nu sunt pe stoc, la termenul stabilit prin acordul părților.

Modalitatea de plată, preluarea riscurilor și transferul dreptului de proprietate

În general, plata este în funcție de clasa de risc a cumpărătorului evaluată de un asigurator internațional pe bază de poliță de asigurare creanțe la plată : la livrare, la termen cu OP, BO sau cec emise de ordonator sau instrumente de plata andosate.
Proprietatea asupra produselor vândute este transferată de la vânzator la cumparator la livrare. Transferul riscurilor şi al cheltuielilor se realizează în condiţiile prevăzute de reglementările INCOTERMS 2010, clauze care nu mai sunt doar reguli de comerț internațional, ci și clauze de comerț „domestic” (intern).

Garantia

Termenul de garanţie este cel practicat de producător. Garanția nu este acceptată pentru produsele care au suferit modificări sau dacă acestea sunt uzate fizic sau deteriorate datorită folosirii necorespunzătoare.
Garanţia contra viciilor produselor vândute si garanţia pentru buna funcţionare sunt conforme cu dispozițiile art.1.707-1.715 si 1.716-1.718 Cod Civil (Legea nr.287/2009).
Pentru sculele aşchietoare și de tăiere – burghie (inclusiv burghie pentru găurirea cu percuție), tarozi, filiere, freze, pânze de debitat, foarfeci, cuțite, dălți, lame cuttere, etc., garanția se acordă în condițiile utilizării într-un regim de lucru controlat, conform normelor internaționale / documentației de achiziție, standardelor de referință. Pentru vicii ascunse, defecte de material care nu pot fi depistate vizual sau cu metode obisnuite la recepție, garanția este de 24 luni și se extinde pe toată durata utilizării produsului. Aceasta nu acoperă uzura normală rezultată în urma utilizării produsului .

Garanția specială brand Unior

Sculele Unior, recunoscute în toată lumea pentru calitatea lor ridicată care permite utilizatorului să termine operațiunile mai repede și mai sigur, se bucură de Unior Lifetim Guaranty - garanție pe întreaga viață de funcționare, cu excepția sculelor pneumatice si de măsurare, care sunt acoperite pe o perioadă de un an de la data vânzării.

Returnarea produselor

Returnarea produselor se face cu respectarea următoarelor etape:

-notificarea vânzătorului cu privire la intenția de returnare a produsului;

-obținerea acordului reprezentanței furnizorului extern cu privire la returnarea produsului;

-preavizarea dealerului în amonte pe lanțul de distribuție înainte de expedierea returului.

Condiții de retur produse:

* Produsul livrat nu corespunde specificațiilor în catalog sau oferta de preț. Se poate solicita returnarea acestuia pentru înlocuire sau rambursarea integrală a contravalorii (în cazul în care produsul nu mai este disponibil).
* Produs nefuncțional în primele 48 ore (2 zile lucrătoare) de la recepție. În cazul în care produsul achiziționat a fost livrat nefuncțional sau prezintă vicii de fabricație, acesta va fi înlocuit cu un produs funcțional, în urma notificării scrise sau prin prezentarea la sediu în termen de 48 de ore de la primirea produsului.
* Produs în colet deteriorat.
* Produse livrate greșit.
Produsele aduse în stoc în urma unei comenzi speciale ferme nu pot fi returnate.

Orice modificare a stării produselor sau deteriorarea ambalajului original al acestora care face imposibilă vânzarea produsului ca nou, duce automat la aplicarea unei proceduri de returnare supusă unei taxe din valoarea inițială a produsului, convenită prin contract sau anexă subsecventă.

Drepturi de proprietate intelectuală

Este obligaţia furnizorului extern si a reprezentantei aceastuia să se asigure că prin intermediul livrărilor de bunuri nu se încalcă drepturi de proprietate intelectuală (brevete, modele industriale, mărci, etc.), precum şi drepturile de autor şi alte drepturi ale terţilor. În cazul în care un terţ ridică pretenţii împotriva cumparatorului pe baza unei presupuse încălcări a acestor drepturi, la prima solicitare din partea cumpărătorului reprezentanța furnizorului extern se obligă să intervina în vederea exonerării acestuia de pretenţii.

Protecția datelor cu caracter personal

Protecția datelor cu caracter personal este prevăzută de Regulamentul (UE) 2016/679 al Parlamentului European și al Consiliului din 27 aprilie 2016 privind protecția persoanelor fizice în ceea ce privește prelucrarea datelor cu caracter personal și privind circulația acestor date și de abrogare a Directivei 95/46 / CE. Datele cu caracter personal vor fi colectate şi utilizate numai în măsura permisă de lege sau de persoana vizată prin acord scris privind utilizarea respectivă, cu garantarea că datele cu caracter personal furnizate în baza relatiilor comerciale au fost obţinute şi prelucrate în conformitate cu legislaţia privind protecţia datelor cu caracter personal. În timpul transmiterii lor electronice, al transportului sau al stocării, datele cu caracter personal nu pot fi citite, copiate, modificate sau şterse sau supuse unei alte prelucrări în mod neautorizat, putându-se verifica şi stabili când şi unde este prevăzută o transmitere de date cu caracter personal.









911/5 ak1

Trusa profesionala de scule pentru mecanici auto TSA in cutie metalica 911/5 ak1



UNIOR

616643	65	20000	1K	1	1622,81


111 E PB Set chei fixe duble drepte 6-32/12 piese (6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x26, 25x28, 27x32)


181 E PB Set chei inelare dublu cotite 6-22/8 piese (6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22)


190/1 Capete chei tubulare 1/2" 20 piese (8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 29, 30, 32)


190.9/2BI Antrenor cu clichet ½" 252 mm


190.3/1 Antrenor parghie glisanta ½" 300 mm


190.5/1 Prelungitor scurt ½" 125 mm


190.4/1 Prelungitor lung ½" 250 mm


190.6/2 Intermediar cardanic ½" 75,5 mm


605 NI Surubelnita lata 1,0x5,5x125 mm


605 NI Surubelnita lata 1,2x6,5x150 mm


615 NI Surubelnita Phillips PH 1x80 mm

615 NI Surubelnita Phillips PH 2x100 mm

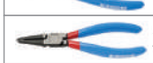

615 NI Surubelnita Phillips PH 3x150 mm


406/4P Cleste combinat 160 mm


506/4P Cleste cu varfuri semirotunde si tais 160 mm


461/4P Cleste cu tais lateral 160 mm


532PLUS/4DP Cleste inele siguranta ext. varfuri drepte 180 mm (19-60 mm)

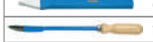

536PLUS/4DP Cleste inele siguranta int. varfuri drepte 180 mm (19-60 mm)


441/4P Cleste reglabil 240 mm


565R/7P Foarfeca universala de taiat tabla 250 mm


660/6A Dalta lata 125 mm


670/6 Dalta ascutita 150 mm


777/6C Razuitor cu trei muchii 150 mm


812 Ciocan lacatuserie 400 g


820A Ciocan masa plastica Φ 32 mm


760B Pila dreptunghiulara bastard 200


763B Pila rotunda bastard 200 mm


911/5 Cutie de scule cu 5 compartimente 450x215x240 mm

911/5 ak2

Trusa profesionala de scule pentru instalatori TSI in cutie metalica 911/5 ak2



UNIOR

616644	43	20000	1K	1	1454,93


111 E PB Set chei fixe duble drepte 6-32/12 piese (6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x26, 25x28, 27x32)


117/4 Cheie fixa simpla brunata 36 mm


117/4 Cheie fixa simpla brunata 41mm


181 E PB Set chei inelare dublu cotite 6-22/8 piese (6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22)


220SL Set chei imbus lungi cu bila 1,5-10/9 piese (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)


205/2 Cheie filtru cu curea 60-140 mm


406/4P Cleste combinat 180 mm


441/4P Cleste reglabil 240 mm


482/6 Cleste tevi cu gura in S 1"


506/4P Cleste cu varfuri semirotunde si tais 160 mm

660/6 Dalta lata 150 mm

660/6A Dalta lata 125 mm

670/6 Dalta ascutita 150 mm

777/6C Razuitor cu trei muchii 150 mm

812 Ciocan lacatuserie 500 g

812 Ciocan lacatuserie 1000 g

429/3 Cleste menghina 250 mm

492/6 Cleste pentru instalatori 2"

565R/7P Foarfeca universala de taiat tabla 250 mm

605 NI Surubelnita lata 1,0x5,5x125

605 NI Surubelnita lata 1,2x6,5x150

605 NI Surubelnita lata 1,6x10,0x200

763B Pila rotunda bastard 200 mm

911/5 Cutie de scule cu 5 compartimente 450x215x240 mm

911/5 ak3

Trusa profesionala de scule pentru lacatusi TSL in cutie metalica 911/5 ak3

UNIOR

616645	80	20000	1K	1	1690,36

111 E PB Set chei fixe duble drepte 6-32/12 piese (6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x26, 25x28, 27x32)

181 E PB Set chei inelare dublu cotite 6-32/12 piese (6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23,24x27, 25x28, 27x32)

126/2 PB Set chei combinate 8-22/8 piese (8, 10, 11, 13, 15, 17, 19, 22)

220 PB Set chei imbus scurte 3-14/8 piese (3, 4, 5, 6, 8, 10, 12, 14)

190/1 Capete chei tubulare 1/2" 10 piese (8, 10, 12, 13, 14, 17, 19, 20, 22, 24)

190.9/2BI Antrenor cu clichet ½" 252 mm

190.3/1 Antrenor parghie glisanta ½" 300 mm

190.5/1 Prelungitor scurt ½" 125 mm

190.4/1 Prelungitor lung ½" 250 mm

605 NI Surubelnita lata 0.8x4.0x100

605 NI Surubelnita lata 1,0x5,5x125

605 NI Surubelnita lata 1,2x6,5x150

605 NI Surubelnita lata 1,6x10,0x200

615 NI Surubelnita Phillips PH 1x80

615 NI Surubelnita Phillips PH 2x100

406/4P Cleste combinat 160 mm

466/4P Cleste cu tais lateral pentru conditii grele 180 mm

530/4 Cleste pentru cuie 180 mm

441/4P Cleste reglabil 240 mm

565R/7P Foarfeca universala de taiat tabla 250 mm

660/6 Dalta lata 150 mm

670/6 Dalta ascutita 150 mm

642/6 Punctator Φ 4 mm

640/6 Dorn Φ 3

777/6C Razuitor cu trei muchii 150 mm

812 Ciocan lacatuserie 200 g

812 Ciocan lacatuserie 500 g

820A Ciocan masa plastica Φ 32 mm

760B Pila dreptunghiulara bastard 200

763B Pila rotunda bastard 200 mm

764B Pila triunghiulara bastard 200

556 A Cutter 160 mm

710 R Ruleta 5 m

911/5 Cutie de scule cu 5 compartimente 450x215x240 mm


UNIOR
METALMINOTTI
COOPER AND UNCONVENTIONAL COOPER ALLOYS
DIAGER
Eklind
GRAVUREM
PORT-BAG
WILPU
MADE IN GERMANY
cobit
tool technology
BIPICO
TOMÉ FETEIRA
OZAT
2000 LTD.
AB tokos
kappa by JAR
Tinie
INSIZE
wellershaus
BOC
BOHRCRAFT
STAYER
ABSINA
Es dreht sich um Einfachheit.
boa
BMS
TIVOLY
1966
FANTACCI
freud.
FIRST
Pilana
PILANA
USH
GERMANY
IREGA
THE ADJUSTABLE IS OUR WORLD
NEXUS
ASW
wekador
EDMA
METRIE
JOSEF HAUNSTETTER
SÄGENFABRIK KG GEGRÜNDET 1916
KuDos
Professional Hydraulic Tools.
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CARLTSØ SAFETY TOOLS
tovarna kos in srpov
since 1881
gorbar
Norbar Torque Tools
Plastica Panaro
HEPCO & BECKER
FRIEDRICH
Sicherheitswerkzeuge