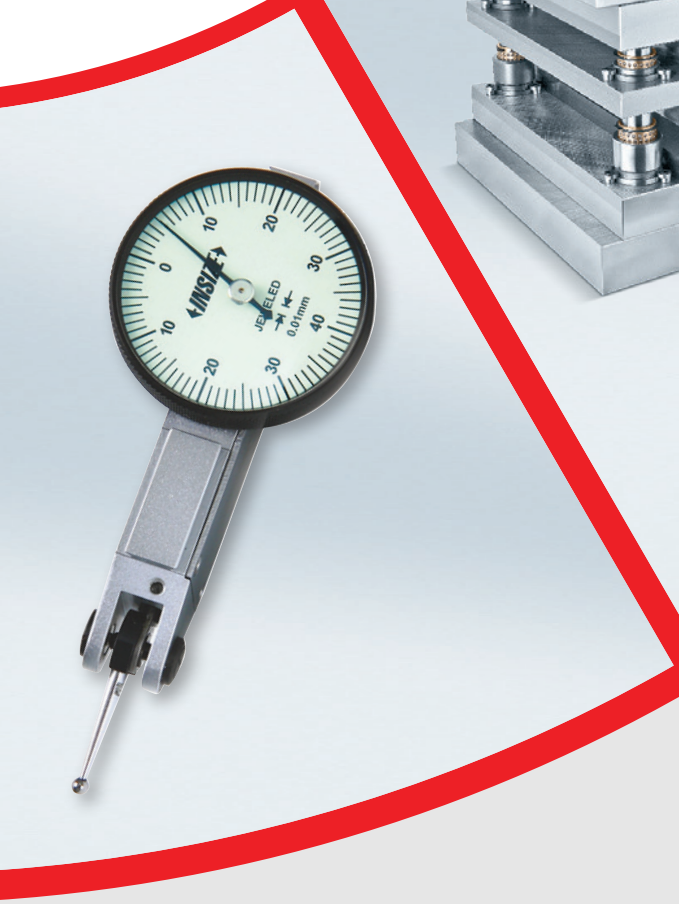
- Kalıp Elemanları
- Parlatma Malzemeleri
- Bağlantı Elemanları
- Ölçü Aletleri
- Kesici Takımlar
- Takım Tutucular
- Tezgah Aksesuarları
- El Aletleri







ÖZCANLAR
KALIP MARKET

HOFFEN
Cutting Tools

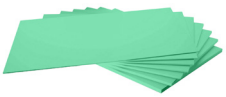
ÖZCANLAR
KALIP MARKET

2015 yılında Topçular'da kurulan Özcanlar Kalıp, teknik hırdavat sektörü için geniş ürün yelpazesi ile tedarikçi olarak faaliyet göstermeye başlamıştır.
Oldukça geniş ürün yelpazesi ve marka-kategori çeşitliliğine sahip olan Özcanlar Kalıp Market, müşterilerine tam destek politikasıyla gerekli tüm imkanları sağlamakta ve her ihtiyaçlarında yanında olmaktadır.
Müşterilerinden aldığı güç ve güvenle dünyaca tanınan en iyi markaları bünyesinde barındıran Özcanlar Kalıp, Türkiye pazarında liderlik yolunda emin adımlarla ilerlemektedir. Kaliteden taviz vermeyen hizmeti ile özverili çalışma anlayışı,
bilgi ve tecrübesiyle beklentiyi hızlı karşılayan çözümleri, Özcanlar Kalıp Market'i her geçen gün müşteri memnuniyeti konusunda sektörde farklı bir noktaya getirmektedir.

HOFFEN
Cutting Tools



002 PLASTİK ENJ. KALIP SETLERİ



003 ISI YALITIM PLAKASI



003 KABLO TUTUCU KAPAĞI



004 YEŞİL YAY



006 MAVİ YAY



008 KIRMIZI YAY



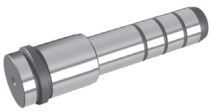
010 SARI YAY



012 VULKOLON YAYLAR



014 ŞAPKALI KADEMELİ KOLON



016 YERLİ KUYRUKLU ŞAP. KAD. KOLON



017 KUYRUKLU ŞAP. KAD. KOLON



020 YAĞ KANALSIZ KOLON



020 BİLYALI KOLON



020 BİLYALI KOLON



021 YERLİ ŞAPKALI KOLON



022 ŞAPKALI KOLON



023 KILAVUZ KOLON



023 BOYNUZ PİM YATAĞI



024 ŞAPKALI BURÇ



024 YERLİ KUYRUKLU ŞAPKALI BURÇ



025 KUYRUKLU ŞAPKALI BURÇ



025 ORTADAN FLANŞLI BURÇ



025 BİLYALI ORTADAN FLANŞLI BURÇ



026 YERLİ TESPİT BURCU



026 TESPİT BURCU



027 BORU İTİCİ PİMLER



028 HAVŞA BAŞLI İTİCİ



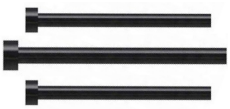
029 HAVŞA BAŞLI ONDALIKLI İTİCİ



030 SİLİNDİR BAŞLI İTİCİ



031 SİLİNDİR BAŞLI ONDALIKLI İTİCİ



032 METAL ENJ. SİLİN. BAŞLI İTİCİ



033 LAMA İTİCİ PİMLER



033 KADEMELİ İTİCİ PİMLER



034 MUZ YOLLUK SİSTEMLERİ



036 MAÇA TUTUCU



036 PLASTİK KALIP YOLLUK MEMELERİ



036 METAL KALIP YOLLUK MEMELERİ



037 KONİK KİLİTLEME



037 DÜZ TESPİT PİMİ



037 ÇEKTİRMELİ TESPİT PİMİ



038 KÜP BLOK KİLİTLEME



038 KARE BLOK KİLİTLEME



038 UZUN KARE BLOK KİLİTLEME



039 PLAKA ÇEKTİRMELER



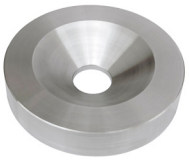
039 DAYAMA PLAKASI



039 ÇELİK SIKMA PLAKALAR



039 ÇELİK SIKMA PLAKALAR



039 KALIP YOLLUK FLANŞI



040 BRONZ GRAFİTLİ DELİKLİ FLANŞ



040 OTO. İTİCİ PLAKA BAĞL. SİSTEMLERİ



041 BASINÇ VE AYAR PLAKALARI



042 GAZ ATMA FİLTRESİ



042 SİNTERLİ GAZ ATMA FİLTRESİ



042 MİNİ HAVALI VALF



042 HAVALI İTİCİ UZUN TİP



042 HAVALI İTİCİ JET TİP



043 KALIP TAKVİMLERİ



043 CİVA ÇELİKLERİ



044 İMBUS CİVATA



045 ALTI KÖŞE YARIM DİŞ CİVATA



046 HAVŞA BAŞLI CİVATA



046 SETSKUR CİVATA



046 BİLYALI SETSKUR



047 YAY AYAR CİVATASI



048 YUVARLAK KALIP SAYACI



048 MEKANİK KALIP SAYACI



048 PRES KALIP SAYACI



048 DİJİTAL ENJ. KALIP SAYACI



049 YUVARLAK MAÇA TUTUCU



049 YUVARLAK MAÇA TUTUCU



049 MAÇA BLOK TUTUCU



050 MAÇA BLOK TUTUCU



050 MAÇA BLOK TUTUCU



050 MAÇA BLOK TUTUCU



051 MAÇA BLOK TUTUCU



051 MAÇA TUTUCU



051 YUVARLAK MAÇA BLOK TUTUCU



052 YUVARLAK MAÇA TUTUCU



052 PLAKA HIZLANDIRICI



052 MAÇA TUTUCU



053 MODÜLER TUTUCU



053 MAÇA TUTUCU



053 MAÇA TUTUCU



054 MAÇA TUTUCU



054 KİLİT MANDALI



054 KADEMELİ AÇMA ÜNİTESİ



055 HAREKETLİ ESNEK MAÇA



055 HAREKETLİ ESNEK MAÇA



056 HAREKETLİ ESNEK MAÇA



056 ESNEK MAÇA



056 ESNEK MAÇA



057 KALDIRMA MAPALARI



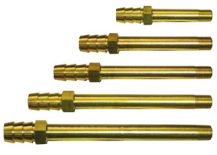
057 TAŞIMA BRAKETİ



058 HİDROLİK PİSTON GRUPLARI



059 SİRKÜLASYON REGÜLATÖRÜ



059 HORTUM GİRİŞLİ REKORLAR



059 OTOMATİK GİRİŞLİ REKORLAR



060 SEPARATÖR



060 TIKAÇLAR



060 PLS. SOĞUTMA SPİRALİ



061 HORTUM-DİŞİ GÖVDE REKORLAR



065 MANŞON REDÜKSİYON



066 NİPEL GRUPLARI



067 O-RING

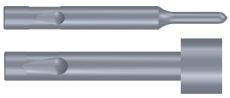


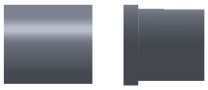
067 NEODYUM MIKNATISLAR


069 STANDART KESME KALIP SETLERİ

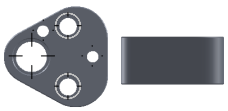

070 GAZLI YAYLAR


082 HAVŞA BAŞLI ZIMBALAR


084 ÖZEL FORMLU ZIMBALAR


090 MATRİSLER


093 RADYUS BAŞLI ZIMBA


094 ZIMBA TUTUCULAR


094 VİDA YERİ HADDE ZIMBASI

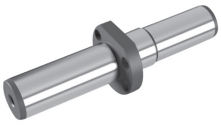

096 ORTADAN ŞAPKALI KOLON


096 KOLON


097 ARKASI KALIN KOLON


097 KOLON


097 KOLON


098 ORTADAN FLANŞLI KOLON


098 KOLON


099 ORTADAN ŞAPKALI BURÇ


099 ÜSTTEN ŞAPKALI BURÇ


099 UZUN BRONZ BURÇ


100 KISA BRONZ BURÇ

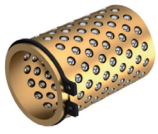

100 ŞAPKALI BİLYALI BURÇ

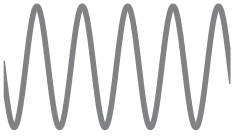

100 KISA BİLYALI BURÇ


101 FLANŞLI RULMAN BURÇ


101 LİNEER BİLYALI BURÇ


101 LİNEER BİLYALI BURÇ


102 BİLYALI KAFES


102 BİLYALI KAFES TUTUCU


103 GRAFİTLİ BURÇ


103 GRAFİTLİ BURÇ


103 GRAFİTLİ BURÇ


104 GRAFİTLİ BURÇ

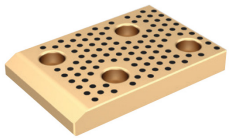

104 GRAFİTLİ BURÇ


105 GRAFİTLİ BURÇ

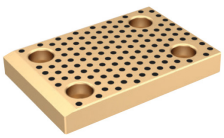

105 GRAFİTLİ BURÇ


105 BRONZ BURÇ

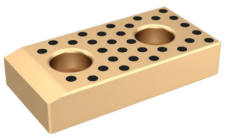

105 BRONZ BURÇ



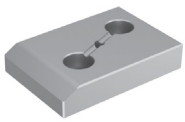
106 SÜRTÜNME PLAKASI



106 SÜRTÜNME PLAKASI



107 SÜRTÜNME PLAKASI



107 ÇELİK SÜRTÜNME PLAKASI



108 ÇELİK SÜRTÜNME PLAKASI



108 TAŞIMA MİLİ



109 TAŞIMA MİLİ



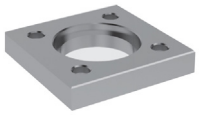
109 TAŞIMA MİLİ



109 EMNİYET PİMİ



112 KOLON TUTUCU FLANŞ



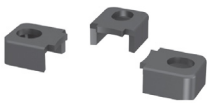
112 KOLON TUTUCU FLANŞ



112 BURÇ TUTUCU FLANŞ



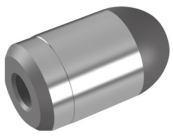
112 BAĞLAMA PAPUCU



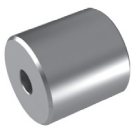
111 BAĞLAMA PAPUCU



111 MERKEZLEME PİMİ



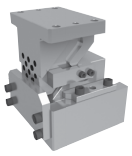
111 MERKEZLEME PİMİ



111 STOPLAMA BLOĞU



111 KONİK MERKEZLEME



112 KAM



113 DÖKÜM BLOK GRUPLARI



119 T-AYAKLI SAPLAMA



119 DÜZ SAPLAMA



120 ANAHTAR AĞIZLI SAPLAMA



120 DESTEK CİVATALI KOMB. BAĞLAMA



121 DESTEK CİVATALI KOMB. Z-PABUÇ



121 DESTEK DELİKLİ DÜZ PAPUÇ



121 KAD. DES. DELİKLİ DÜZ PAPUÇ



122 MERDİVEN DİŞ BAĞL. PABUCU



122 MERDİVEN DİŞ DESTEK



122 DESTEK DELİKLİ Z-BAĞL. PABUCU



123 KADEMELİ BAĞL. PABUCU



123 KOMBİNE BAĞL. PABUÇ



123 KADEMELİ BAĞL. PABUCU



124 DESTEKSİZ ASKI PABUÇ



124 PABUÇ DESTEK CİVATASI


124 TRAPEZ DİŞ YÜKS. DESTEK


125 UZUN T-PAPUÇ


125 DELİKSİZ T-PAPUÇ


125 DERECELİ T–PABUÇ


126 T-PAPUÇ


126 TAKVİYELİ SOMUN


126 PULLU SOMUN


127 UZATMA SOMUN


127 PUL–KANAL TEMİZLEYİCİ


128 BLOK YANDAN BAĞLAMA


128 BLOK YANDAN BAĞL. DAYAMASI


129 ÇİFT ÇENELİ YANDAN BAĞL.


129 DAYAMA


129 YANDAN BAĞL. PENÇE PABUÇ


130 VİDALI YÜKS. BAĞLAMA SETİ

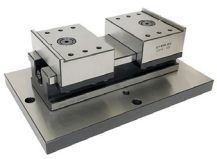

130 MERDİVEN YÜKSELTİCİLİ SET

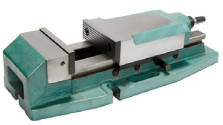

130 DERECELİ YANDAN BAĞL. SET


131 KIZAKLI YANDAN BAĞLAMA SETİ


131 KIZAKLI YANDAN BAĞL. SETİ

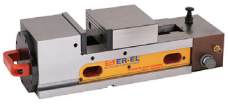

131 KOLLU YANDAN BAĞL. SETİ

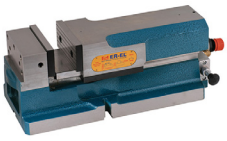

132 ÇİFT AÇILIR ÇELİK MENGENE


133 HİDROLİK MENGENE


133 MEKANİK ÇELİK MENGENE


134 MODÜLER MEKA. MENGENE


135 PNÖMATİK MENGENE

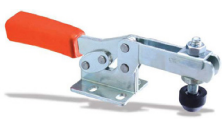

135 PNÖMATİK MENGENE


135 ÇİFT AÇILIR 5-EKSEN MENGENE


136 ÇOK ÇENELİ SERİ MENGENE


136 KALIP TAŞIMA MAPASI


137 DİK BAĞLAMA ELEMANI


137 YATAY BAĞLAMA ELEMANI


137 İTME ÇEKME TİPİ BAĞL. ELEMANI


138 KANCALI BAĞL. ELEMANI


138 MAFSALLI BASKI CİVATASI


138 DİK PNÖMATİK BAĞL. ELEMANI



139 HAVALI SOMUN SÖKME 1/2"



139 HAVALI SOMUN SÖKME 3/4"



139 HAVALI SOMUN SÖKME 1/2"



139 HAVALI SOMUN SÖKME 1"



139 HAVALI MİNİ SOMUN SÖKME 1/2"



139 HAVALI SOMUN SÖKME 1/2"



140 HAVALI TORNAVİDA



140 HAVALI TORNAVİDA



140 HAVALI TORNAVİDA



140 HAVALI KALIPÇI TAŞLAMA



140 HAVALI KALIPÇI TAŞLAMA



140 HAVALI KALIPÇI TAŞLAMA



141 HAVALI AÇILI KALIPÇI TAŞLAMA



141 HAVALI MİKRO KALIPÇI TAŞLAMA



141 MİKRO KALIPÇI TAŞLAMA



141 HAVALI MİKRO KALIPÇI TAŞLAMA



141 HAVALI MİKRO KALIPÇI TAŞLAMA



141 HAVALI MİKRO KALIPÇI TAŞLAMA



142 ŞARTLANDIRICI 1/4"



142 ŞARTLANDIRICI 1/2"



142 HAVALI LOKMA 1/2"



142 HAVALI ALLEN LOKMA 1/2"



142 HAVALI UZUN ALLEN LOKMA 1/2"



142 HAVALI KALIPÇI TAŞLAMA SET



143 ŞARJLI LED LAMBA



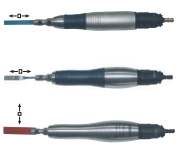
144 SPİRAL MOTORLAR



144 MOTOR ASKISI MENGENELİ TİP



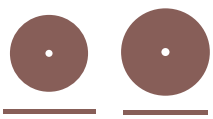
144 MANDRENLİ SPİRAL KOL



145 HAVALI DİPROFİLLER



145 HAVALI SPİRALLER



145 SEPARE KESME TAŞLARI



146 PARLATMA LASTİKLERİ



146 DAİRE PARLATMA LASTİKLERİ



146 SAPLI PARLATMA LASTİKLERİ



146 KIL FIRÇALAR



147 GAZ TAŞLARI



147 SERAMİK GAZ TAŞLARI



147 ELMAS PARLATMA MACUNU



148 PARLATMA KEÇELERİ



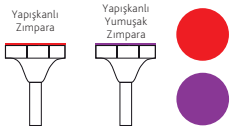
148 BEZ ZIMPARA



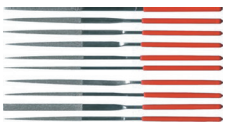
148 PLAKA SU ZIMPARASI



148 SPİRO BANT ZIMPARA



148 SAPLI ELASTİK LASTİK



149 PF–10'LU ELMAS EĞE SETİ



149 PTF–10'LU ELMAS EĞE SETİ



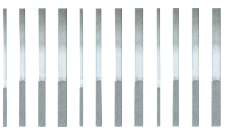
149 PF–5'Lİ ELMAS EĞE SETİ



149 BF90–10'LU ELMAS EĞE SETİ



149 BF60–5'Lİ ELMAS EĞE SETİ



150 CF–12'Lİ ELMAS EĞE SETİ



150 FA–10'LU ELMAS EĞE SETİ



150 MTF–12'Lİ ELMAS EĞE SETİ



150 IF50–5'Lİ ELMAS EĞE SETİ



151 PÜSKÜRTME ELMAS UÇLAR



152 PEMBE TAŞLAR



154 KALIPÇI FREZELER



155 TORNA VE MİL EĞELERİ



155 SAATÇİ EĞELERİ



156 NK ZIMPARA TAŞI



156 EKR TAŞLAMA TAŞI



156 SCG ELMAS TAŞ



156 EKR ÇANAK TAŞLAR



157 KESİCİ DİSKLER



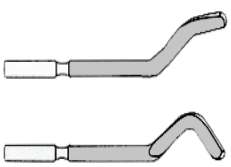
157 FLAP DİSK ZIMPARA



157 ELMAS ÇANAK TAŞ



157 TAŞ DÜZELTME ELMASI



158 ÇAPAK ALMA RASPA UÇLARI



158 ÇAPAK ALMA RASPA BIÇAĞI



158 ÇAPAK ALMA RASPA BIÇAĞI



158 YOLLUK KESME MAKASI



158 PLASTİK ÇAPAK ALMA BIÇAĞI



166 UZATMALI DELİK MİKROMETRESİ



166 İÇ ÇAP MİKROMETRESİ



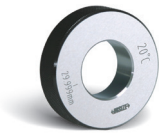
166 DİJİTAL İÇ ÇAP MİKROMETRESİ



166 PASOMETRE



166 MİKROMETRE AYAĞI



167 HALKA MASTAR



167 DİJİTAL KOMPARATÖR



167 3 AYAKLI İÇ ÇAP MİKROMETRE



168 KOMPARATÖR SAATİ



168 KOMPARATÖR SAATİ DARBE KORUMA



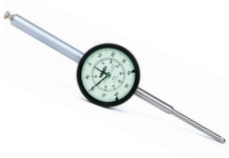
168 KOMPARATÖR SAATİ DARBE KORUMA



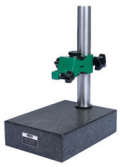
168 KOMPARATÖR SAATİ



168 KOMPARATÖR SAATİ



168 KOMPARATÖR SAATİ



169 KOMPARATÖR AYAĞI GRANİT



169 KOMPARATÖR AYAĞI



169 KOMPARATÖR AYAĞI



169 KOMPARATÖR AYAĞI MİNİ



169 UZUN PROP SALGI KOMPARATÖRÜ



169 SALGI KOMPARATÖRÜ



169 KALINLIK ÖLÇME KOMPARATÖRÜ



169 KALINLIK ÖLÇME KOMPARATÖRÜ



169 KALINLIK ÖLÇME KOMPARATÖRÜ



169 KALINLIK ÖLÇME KOMPARATÖRÜ



170 KALINLIK ÖLÇME KOMPARATÖRÜ



170 DİJİTAL SİLİNDİR KOMPARATÖRÜ



170 SİLİNDİR KOMP. (SET)



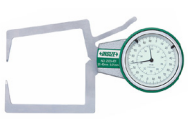
170 SİLİNDİR KOMPARATÖRÜ



170 ÇELİK KONTROL MASTARLARI



170 AÇI ÖLÇER



171 DIŞ ÇAP KOMPARATÖRÜ



171 İÇ ÇAP KOMPARATÖRÜ



171 DİJİTAL DIŞ ÇAP KOMPARATÖRÜ



171 DİJİTAL İÇ ÇAP KOMPARATÖRÜ



171 MERCEKLİ AÇI ÖLÇER



171 SAATLİ AÇI ÖLÇER



172 90° KIL GÖNYE



172 90° DÜZ GÖNYE



172 90° DÜZ GÖNYE (GENİŞ TABANLI)



172 90° GENİŞ TABANLI ŞAPKALI GÖNYE



172 AYARLI İÇ ÇAP PERGELİ



172 AYARLI DÜZ PERGEL



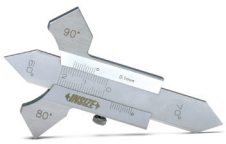
172 MEKANİK PROB



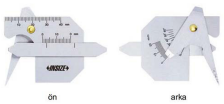
172 MEKANİK PROB



172 İKİ PUNTA ARASI SALGI ÖLÇME



173 KAYNAKÇI KUMPASI



173 KOMBİNASYONLU KAYNAKÇI KUMP.



173 DİJİTAL AÇI ÖLÇER VE TERAZİ



173 KOMPARATÖR SAATLİ MERKEZLEME



173 DİJ. TAKILABİLEN KUMPAS YATAY



173 DİJ. TAKILABİLEN KUMPAS DİKEY



173 FİLLER ÇAKISI



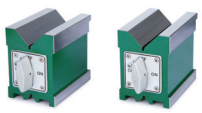
173 RADÜS MASTARI



174 DİŞ MASTARI



174 ÇELİK MASTAR



174 MANYETİK V BLOK



174 ÇELİK V BLOK



174 13 PARÇA ÖLÇÜM SETİ



175 METRİK HALKA MASTARI



175 METRİK VİDA MASTARI



175 SERVO OTOMATİK KILAVUZ ÇEKME



176 MANYETİK TABLA



176 MANYETİK KALDIRAÇ



176 FREZE BİLEME VE KESME MAKİNASI



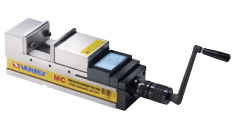
176 MATKAP BİLEME MAKİNASI



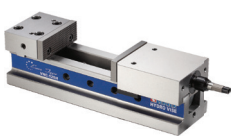
176 MATKAP VE FREZE BİLEME MAKİNASI



177 VQC MEK. MC CNC MENGENE



177 VNC HİDRO MAK. MENGENESİ



177 VMC HASSAS HİDR. MENGENE



178 VHO KADEMELİ HİDR. MENGENE



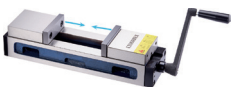
178 VH HİDROLİK FREZE MENGENESİ



178 VJ SÜPER OPEN MENGENE



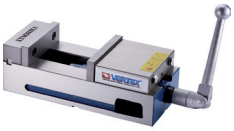
179 VK TİPİ FREZE MENGENESİ



179 VCV ÇİFT ÇENE MENGENE



179 VA–VD FREZE MENGENESİ



180 VMC TAŞLANMIŞ MENGENE



180 PM PNÖMATİK MENGENE



180 VMC PNÖMATİK MENGENE



181 VW 3 AÇILI FREZE MENGENESİ



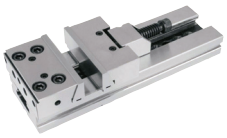
181 VWT 2 AÇILI FREZE MENGENESİ



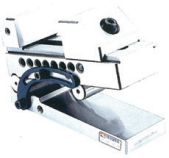
181 VWT 2 AÇILI MAK. MENGENESİ



182 VHT 2 AÇILI HİDR. MAK. MENGENESİ



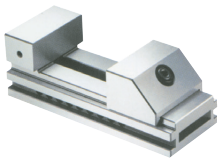
182 MHT SÜPER HASSAS MENG.



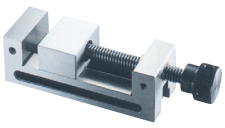
182 SVB SİNÜS MENGENESİ



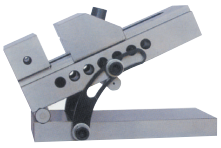
182 VUA HASSAS AÇILI MENGENE



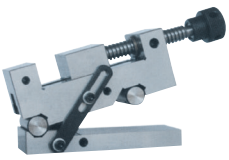
183 PHM PİMLİ HASSAS MENG.



183 VHM VİDALI HASSAS MENG.



183 APHM AÇILI PİMLİ HASSAS MENG.



183 AVHM AÇILI VİDALI MENG.



183 TEZGAH SPORTLARI



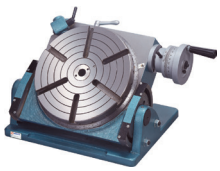
184 HV DÖNER TABLA



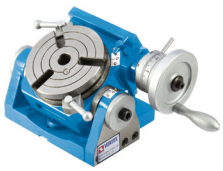
184 CS DÖNER TABLA BÖLME APARATLI



184 CC DÖNER TABLA BÖLME APARATLI



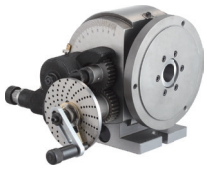
185 VU AÇI AYARLI DÖNER TABLA



185 VU DERECELİ TABLA DİVİZÖR



185 BS ÜNİVERSAL DİVİZÖR



186 BS ÜNİVERSAL DİVİZÖR



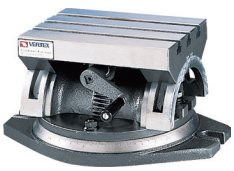
186 HSD DİKEY SÜPER DİVİZÖR



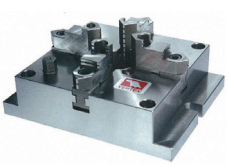
186 VSI EKONOMİK TİP DİVİZÖR



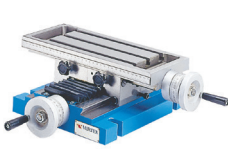
187 VUA ÜNİVERSAL AÇILI TABLA



187 VUA ÜNİVERSAL AÇILI TABLA



187 VMJ YATAY KARE AYNA



188 VCT HASSAS ÇAPRAZ SUPORT

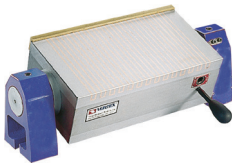


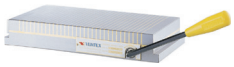
188 CK KALIP BAĞLAMA SETİ



188 VEM ELEKT. MANY. TABLA


189 ELEKTRİKLİ MANYETİK TABLA

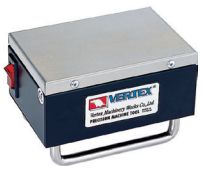

189 VLW-DERECELİ MANYETİK TABLA


189 VG-SERİSİ MANYETİK TABLA

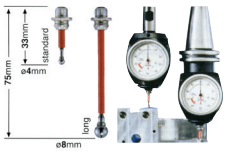

190 VGF-SERİSİ MANYETİK TABLA


190 VGD-YUVARLAK MANYETİK TABLA

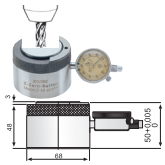

190 VDM-68 MANY. ALMALAR


190 VDM-9 MANY. ALMALAR


190 VDM-8-11 MANY. ALMALAR



191 3D TESTER


191 Z AKSI SIFIRLAMA


191 Z AKSI SIFIRLAMA


191 Z AKSI SIFIRLAMA


191 IŞIKLI SESLİ PROB


191 MEKANİK PROB


191 JHONSON MASTARI


191 ŞAPKALI GÖNYE


191 KIL GÖNYE


191 ÇELİK LAYNER


192 MANYETİK AYAKLAR


192 VMS-MANYETİK SEPERATÖR

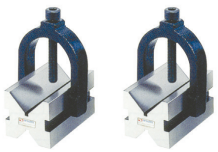

192 BOR YAĞ HORTUMU

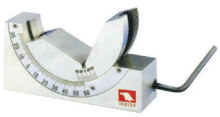

192 VCP-MANYETİK V YATAK


192 VCP-MANYETİK V YATAK


192 TAŞLANMIŞ KARE V YATAK


193 TAŞLANMIŞ KARE V YATAK


193 PVV-PARALEL V YATAK


193 AVV-AÇI AYARLI V YATAK



193 TAŞIYICI SAPANLAR


193 ÇELİK HARF TAKIMI


193 ÇELİK RAKAM TAKIMI


194 U2 TAKIM BİLEME


194 VCF500 PAH KIRMA


194 VCF500F PAH KIRMA


194 VCF600 PAH KIRMA


194 EMNİYETLİ TİP KLAVUZ TUTUCU



195 MATKAP FREZE TEZGAHI



195 ŞERİT DEKUPAJ TEZGAHI



195 TAŞ MOTORU



195 PİM KESME MAKİNASI



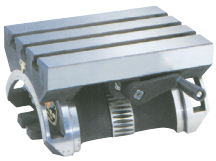
195 FREZE OTOMATİĞİ



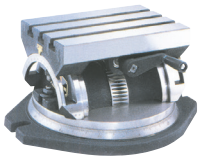
195 PARALEL SET



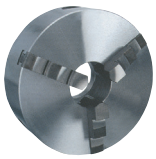
195 PARALEL SET



196 AÇILI TABLA



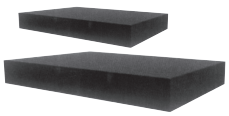
196 DÖNER AÇILI TABLA



196 3 AYAKLI TORNA AYNASI



196 4 AYAKLI TORNA AYNASI



196 GRANİT PLEYT



196 VR TEZGAH GÖNYESİ 90°



196 ES MAKİNA TAMPONLARI



196 İŞ AYAKKABILARI



197 ÜNİVERSAL TULUMBA PRES



197 ELEKTRİKLİ DARBE PRES



197 PNÖMATİK DARBELİ PRES



198 TEK DEVİR MATKAP TEZGAHI



198 ÇİFT DEVİR MATKAP TEZGAHI



199 GWS 7-115 AVUÇ TAŞLAMA



199 GWS 22-180 TAŞLAMA



199 GWS 24-230 H TAŞLAMA



199 GGS 28 LCE DELİK TAŞLAMA



199 DREMEL 3000



199 GUS 10.8 V-LI AKÜLÜ SAC KESME



199 GSC 160 SAC KESME



200 GBM 13-2RE DARBESİZ MATKAP



200 GMB 10 RE MATKAP



200 GDS 18 E DARBELİ SOMUN SIKMA



200 GDS 18 V-LI AKÜLÜ DARBELİ SIKMA



200 GBM 32-4 MATKAP



200 GBM 32-4 MANY. MATKAP TEZGAHI



200 GSB 14.4-2 AKÜLÜ MATKAP



200 GLM 50 MESAFE ÖLÇÜ ALETİ



201 WEICONLOCK ORTA KUVVET



201 WEICONLOCK YÜKSEK KUVVET



201 FREN VE BALATA TEMİZLEYİCİ



201 BİO-CUT



201 TOP–LUB



202 W44 T MULTİ-SPRAY



202 KOROZYON ÖNLEYİCİ SPREY



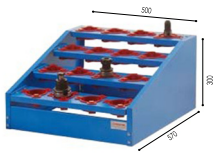
202 GENEL TEMİZLEYİCİ



202 EPOKSİ DAKİKALIK YAPIŞTIRICI



202 AL-F ÇOK YÖNLÜ YAĞLAYICI



203 CNC SEHPASI



203 TAKIM ARABASI



203 CNC SEHPALI TAKIM DOLABI



203 TAŞIMA SEHPASI



203 CNC SEHPALI TAKIM DOLABI



203 TAŞIMA SEHPASI



203 CNC ÇEKMECELİ TAKIM DOLABI



203 CNC ÇEKMECELİ TAKIM DOLABI



204 CNC RAFLI ÇEKM. MALZ. DOLABI



204 DAR TİP SOYUNMA DOLABI



204 HAREKETLİ TAKIM ARABASI



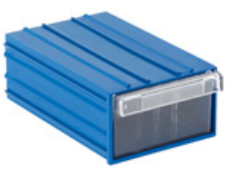
204 PANOLU IŞIKLI MASA



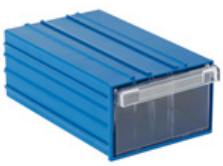
204 ÇEKMECELİ DOLAP ÇALIŞMA MASASI



204 3 DOLAPLI 9 ÇEKMECELİ MASA



205 PLS. ÇEKMECE KUTULAR



205 PLS. ÇEKMECE KUTULAR



205 PLS. ÇEKMECE KUTULAR



205 PLS. AVADANLIK KUTULAR



205 PLS. AVADANLIK KUTULAR



205 PLS. AVADANLIK KUTULAR



205 PLASTİK KASALAR



205 PLASTİK KASALAR



205 PLASTİK KASALAR



HOFFEN Cutting Tools

207 DÜZ KARBÜR FREZE



HOFFEN Cutting Tools

207 UZUN DÜZ KARBÜR FREZE



HOFFEN Cutting Tools

208 KÜRE KARBÜR FREZE



HOFFEN Cutting Tools

208 UZUN KÜRE KARBÜR FREZE



HOFFEN Cutting Tools

209 KÖŞE RADİUS KARBÜR FREZE



HOFFEN Cutting Tools

209 UZUN KÖŞE RADİUS FREZE



HOFFEN Cutting Tools

210 DÜZ KARBÜR FREZE SIGNUM



HOFFEN Cutting Tools

210 KÜRE KARBÜR FREZE SIGNUM



HOFFEN Cutting Tools

211 DALMA BOYLU KÜRE KARBÜR FREZE



HOFFEN Cutting Tools

211 DALMA BOYLU KÖŞE RAD. KARBÜR FREZE



212 PENS GRUBU



213 D'ANDREA TRM50 BARA SETİ



214 BT / BBT PENS BAŞLIKLARI



215 BT / BBT VELDON TUTUCULAR



215 BT / BBT KAMALI MORS ADAPTÖRÜ



216 KOMBİNE TARAMA BAŞLIK



216 KOMBİNE TARAMA BAŞLIK



216 KOMBİNE TARAMA BAŞLIK



217 RULMANLI PENS TUTUCU



217 EMNİYETLİ TİP KILAVUZ ÇEKME



217 NC MANDREN TUTUCU



218 MANDREN ADAPTÖRÜ



218 VİDALI TAKIM TUTUCU



218 PENS TAKIMLARI



219 SİLİNDİRİK ŞAFTLI PENS BAŞLIĞI



219 REDÜKSİYON KOVANI



220 HASSAS DELİK İŞLEME SETİ



220 DELİK İŞLEME APARATI



220 FREZE TARAMA BAŞL. TUTUCUSU



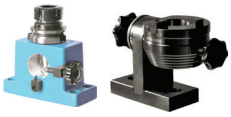
221 AY ANAHTARLARI



221 PENS KAPAKLARI



221 PULLSTAD



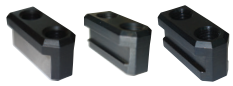
221 MONTAJ APARATI



222 YUMUŞAK AYAKLAR



223 YUMUŞAK AYAKLAR


224 T-SOMUNLAR


224 CNC DÖNER PUNTA–60°


224 2 KADEMELİ CNC DÖNER PUNTA


225 3 KADEMELİ CNC DÖNER PUNTA


225 TAKMA UÇLU BORU PUNTASI


225 TAKMA UÇLU BORU PUNTASI


225 ÇOKLU KÖŞE AÇMA APARATI


226 YAYLI KILAVUZ ÇEKME APARATI


226 SİLİNDİR ŞAFTLI PENS TUTUCU


226 YAYLI PAFTA ÇEKME APARATI


227 TARAMA BAŞLIKLARI


227 TARAMA BAŞLIKLARI


227 TARAMA BAŞLIKLARI


228 TARAMA BAŞLIKLARI


228 TARAMA BAŞLIKLARI


228 SAPLI TARAMA BAŞLIKLARI


229 SAPLI TARAMA BAŞLIKLARI


229 SAPLI TARAMA BAŞLIKLARI


230 SAPLI TARAMA BAŞLIKLARI


231 KÜRE SAPLI TARAMA BAŞLIK


231 AÇILI SAPLI TARAMA BAŞLIK


232 VİDALI TARAMA BAŞLIKLARI


232 VİDALI TARAMA BAŞLIKLARI


233 TAKMA UÇLU T FREZELER


233 TAKMA UÇLU T FREZELER


233 TAKMA UÇLU T FREZELER


233 TAKMA UÇLU T FREZELER


234 DIŞ PASO TORNA KATERLERİ


234 DIŞ PASO TORNA KATERLERİ


234 DIŞ ÇAP DİŞ KATERLERİ


235 DIŞ PASO TORNA KATERLERİ


235 DIŞ PASO TORNA KATERLERİ


236 İÇ PASO TORNA KATERLERİ


236 İÇ PASO TORNA KATERLERİ


237 İÇ DİŞ TORNA KATERLERİ


237 İÇ ÇAP PASO KATERLERİ


237 İÇ ÇAP PASO KATERLERİ


238 UDRİLL MATKAP


240 KANAL AÇMA–KESME KATERLERİ


240 İÇ ÇAP KATERLERİ


241 TARAMA BAŞLIĞI CİVATALARI


241 TARAMA BAŞLIĞI ALTLIKLARI


241 TARAMA BAŞLIĞI ASKESUARLARI


242 CCMT TAKMA UÇLAR


242 CNMG TAKMA UÇLAR


242 CNMM TAKMA UÇLAR


242 CPMT TAKMA UÇLAR


242 DCMT TAKMA UÇLAR


242 DNMG TAKMA UÇLAR


242 DNUX TAKMA UÇLAR


242 KNUX TAKMA UÇLAR


242 RCMT TAKMA UÇLAR


242 TNMG TAKMA UÇLAR


242 TNMP TAKMA UÇLAR


242 TNUX TAKMA UÇLAR


242 TPMR TAKMA UÇLAR

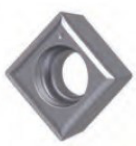

242 VBMT TAKMA UÇLAR


242 VCMT TAKMA UÇLAR


242 VNMG TAKMA UÇLAR


242 WNMG TAKMA UÇLAR


242 WNMP TAKMA UÇLAR


242 SCMT TAKMA UÇLAR


242 SNMG TAKMA UÇLAR


242 TCMT TAKMA UÇLAR


243 CCGT ALU TAKMA UÇLAR


243 CNGG ALU TAKMA UÇLAR


243 DCGT ALU TAKMA UÇLAR


243 DNGG ALU TAKMA UÇLAR


243 TNGG ALU TAKMA UÇLAR


243 VNGG ALU TAKMA UÇLAR



243 WNGG ALU TAKMA UÇLAR



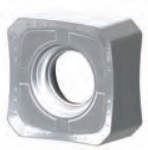
243 SPMG TAKMA UÇLAR



243 WCMX TAKMA UÇLAR



243 SEKT TAKMA UÇLAR



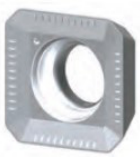
243 SNKX TAKMA UÇLAR



243 HNKX TAKMA UÇLAR



243 ONKX TAKMA UÇLAR



243 SDKT TAKMA UÇLAR



243 SPKN TAKMA UÇLAR



243 SEKN TAKMA UÇLAR



243 ODMT TAKMA UÇLAR



243 ODMW TAKMA UÇLAR



243 RDMT TAKMA UÇLAR



243 APKT TAKMA UÇLAR



243 TPKN TAKMA UÇLAR



244 STANDART MATKAP UCU

244 UZUN MATKAP UCU



245 1869/1 EKSTRA UZUN MATKAP



245 1869/2 EKSTRA UZUN MATKAP



245 1869/3 EKSTRA UZUN MATKAP



245 MORS KONİK SAPLI MATKAP



246 KISA PARMAK FREZE



246 UZUN PARMAK FREZE



246 ALÜMİNYUM FREZE TİP 1



246 ALÜMİNYUM FREZE TİP 2



246 ALÜMİNYUM FREZE TİP 3



247 KISA KABA TALAŞ FREZE



247 UZUN KABA TALAŞ FREZE



247 HAVŞA MATKABI 90°



247 KÖŞE RADYUS FREZE



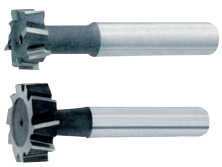
247 SABİT PİLOT FREZE



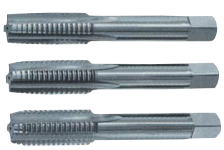
248 KIRLANGIÇ FREZE



248 KIRLANGIÇ FREZE



248 T-YARIK FREZE ÇAPRAZ DİŞLİ



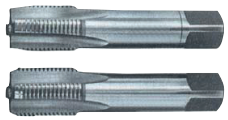
249 EL TAKIM KILAVUZ



249 WHITWORTH MAK. KILAVUZU



249 İNCE SAPLI MAK. KILAVUZU



249 WHITWORTH EL KILAVUZU



249 TAKVİYE SAPLI MAK. KILAVUZU



250 EL RAYBASI



250 MORS KONİK MAK. RAYBASI



250 SİLİNDİRİK SAPLI MAK. RAYBASI



250 KONİK PİM DELİĞİ RAYBASI



250 PAFTA



251 PUNTA MATKABI



251 UZUN PUNTA MATKABI



251 TERS KILAVUZ TAKIMI



251 KILAVUZ KOLU



251 CIRCIRLI KILAVUZ KOLU



251 PAFTA KOLU



251 ANAHTARLI MANDREN



251 ELLE SIKMALI MANDREN



252 PANTOGRAF KALEMİ



252 KARE KESİTLİ TORNA KALEMİ



252 DÖNER PUNTA



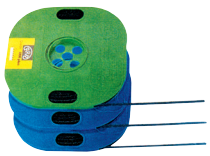
252 MORS KOVANI



252 MANDREN KONİĞİ



253 DAİRE TESTERE



253 DEKOPAJ TESTERE



253 MAKİNA VE EL TESTERELERİ



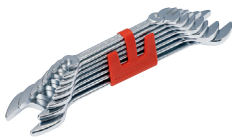
254 İKİ AĞIZ AÇIK ANAHTAR



254 KOMBİNE ANAHTAR



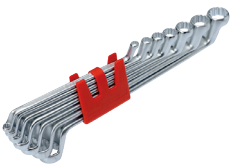
254 YILDIZ İKİ AĞIZ ANAHTAR



254 İKİ AĞIZ AÇIK ANAHTAR TAKIM



254 KOMBİNE ANAHTAR TAKIM



254 YILDIZ İKİ AĞIZ ANAHTAR TAKIM



254 CIRCIR KOMBİNE ANAHTAR



254 KURBAĞACIK ANAHTAR



254 YUVARLAK BAŞLI T TİPİ ALLEN ANAH.



254 ALLEN ANAHTAR TAKIM ALTI KÖŞE



254 TOPBAŞLI ALLEN ANAHTAR TAKIM



254 1/2" CIRCIR KOLU



255 1/2" ALTI KÖŞE LOKMA ANAHTAR



255 1/2" LOKMALI UÇ



255 1/2" LOKMALI UÇ



255 1/2" HAVALI UZUN LOKMA



255 1/2" UZATMA KOLU



255 1/2" ADAPTÖR



255 KRAFT SERİ DÜZ UÇLU TORNAVİDA



255 KRAFT SERİ YILDIZ UÇLU TORNAVİDA



255 DÜZ-YILDIZ BİTS UÇLAR



256 LOKMA UÇLU TORNOVİDA



256 TORX UÇLU TORNAVİDA



256 KRAFT SERİ TORNAVİDA SETİ



256 ELEKTRONİKÇİ TORNAVİDA SETİ



256 LOKMA UÇLU TORNAVİDA SETİ



256 ELEKTRİK KONTROL KALEMİ



256 KARGABURNU OPAK



256 KOMBİNE PENSE OPAK



256 YAN KESKİ OPAK



256 ELEKTRONİKÇİ PENSE



256 ELEKTRONİKÇİ KARGABURUN



256 ELEKTRONİKÇİ YAN KESKİ



257 SEGMAN PENSELERİ



257 SEGMAN PENSELERİ



257 SEGMAN PENSELERİ



257 STİLSON BORU ANAHTARI



257 MAŞALI BORU ANAHTARI



257 İÇ SEGMAN PENSİ YAYSIZ EĞRİ



257 UNİVERSAL FORT PENSE



257 TENEKECİ MAKASI YAYLI



257 UNİVERSAL AYARLI PENSE



257 OLUKLU LEVYE



257 KAPORTACI MAKASI



257 MADENİ YAĞDANLIK



258 TESVİYECİ ÇEKİCİ



258 PLASTİK TOKMAK



258 PLASTİK ÇEKİÇ VE YEDEĞİ



258 BAKIR ÇEKİÇ



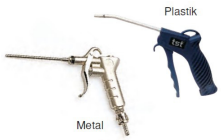
258 GRES POMPASI



258 FIRÇALAR



258 HORTUM KELEPÇELERİ



258 HAVA TABANCASI



258 SPİRAL HAVA HORTUMU



258 ŞERİT TESTERELER



259 İSTİF MAKİNESİ



259 İSTİF MAKİNESİ



259 İSTİF MAKİNESİ



259 İSTİF MAKİNESİ



260 İSTİF MAKİNESİ



260 İSTİF MAKİNESİ



260 İSTİF MAKİNESİ



260 İSTİF MAKİNESİ



261 TRANSPALET



261 TRANSPALET



261 TERAZİLİ TRANSPALET



261 AKÜLÜ TRANSPALET



262 ELEKTRİKLİ İKİ YÖNLÜ VİNÇ



262 CERASKAL



262 MANUEL YÜK PLATFORMU



262 MANUEL YÜK PLATFORMU



262 MANUEL YÜK PLATFORMU



263 MANUEL YÜK PLATFORMU



263 MANUEL YÜK PLATFORMU

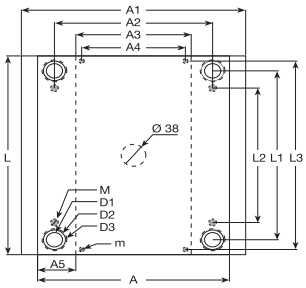


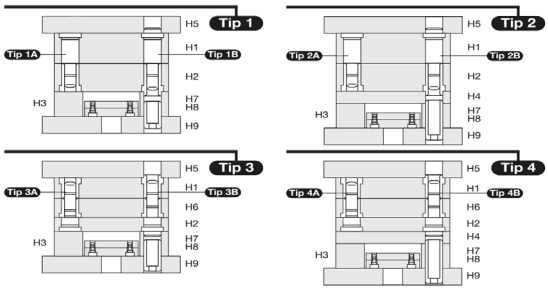
263 MANUEL YÜK PLATFORMU

STANDART PLASTİK ENJEKSİYON KALIP ELEMANLARI

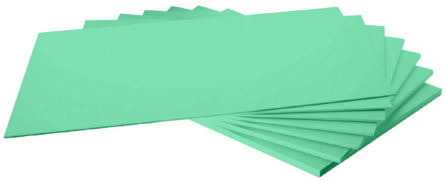


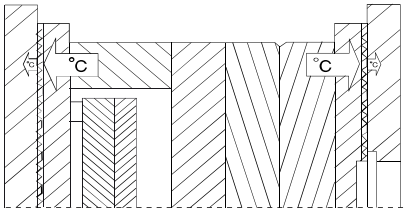


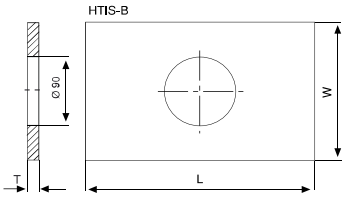




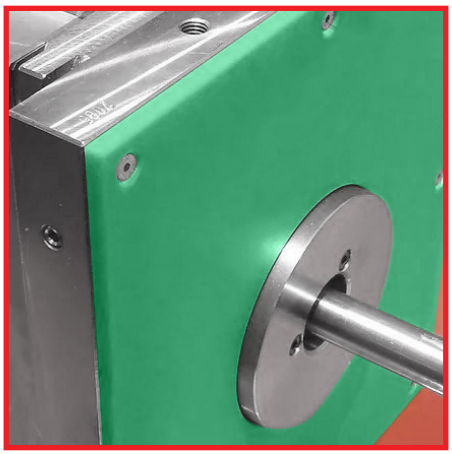
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	446													394	318	422				
	496													444	368	472				
	546													494	418	522				
396	396	37 & 117	37 & 117	27 & 57	77 & 117	37 & 57	22 & 27	27	446	330	276 256	252 232	57 67	330	244	372	30	39	M10	M16
	446													380	294	422				
	496													430	344	472				
	546													480	394	522				
	596													530	444	572				
446	446	37 & 117	37 & 117	37 & 67	77 & 117	37 & 57	22 & 27	27	496	380	326 306 286	302 282 262	57 67 77	380	294	422	30	39	M10	M16
	496													430	344	472				
	546													480	394	522				
	596													530	444	572				
	646													580	494	622				
496	496	37 & 117	37 & 117	37 & 67	77 & 117	37 & 57	22 & 27	27	546	430	376 356 336	352 332 312	57 67 77	430	344	472	30	39	M10	M16
	546													480	394	522				
	596													530	444	572				
	646													580	494	622				
	696													630	544	672				
546	546	47 & 127	47 & 127	47 & 77	77 & 137	47 & 67	22 & 27	27 & 37	596	466	405 385 365	375 355 335	67 77 87	466	356	516	40	54	M12	M20
	596													516	406	566				
	646													566	456	616				
	696													616	506	666				
	746													666	556	716				
596	596	47 & 127	47 & 127	47 & 77	77 & 137	47 & 67	22 & 27	27 & 37	646	516	455 435 415	425 405 385	67 77 87	516	406	566	40	54	M12	M20
	646													566	456	616				
	696													616	56	666				
	746													666	556	716				
	796													716	606	776				







Isı Yalıtım Plakası



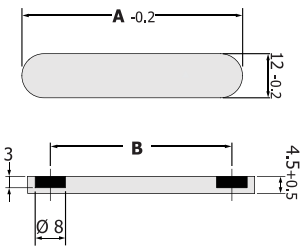
İstenilen özel ölçülerde temin edilebilir.

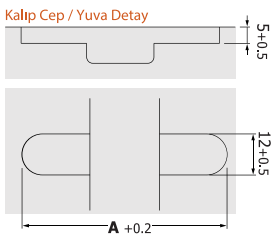
Sip. No	Kalınlık	En x Boy
000001	6 mm	156 x 156
000002		156 x 196
000003		196 x 196
000004		196 x 246
000005		246 x 246
000006		246 x 249
000007		296 x 296
000008		346 x 346
000009		246 x 396
000010		396 x 396
000011		446 x 446
000012		496 x 496
000013		546 x 546
000014		596 x 596
000015		446 x 646
000016		546 x 646
000017		496 x 746
000018		596 x 796

Sip. No	Kalınlık	En x Boy
000019	8 mm	156 x 156
000020		156 x 196
000021		196 x 196
000022		196 x 246
000023		246 x 246
000024		246 x 249
000025		296 x 296
000026		346 x 346
000027		246 x 396
000028		396 x 396
000029		446 x 446
000030		496 x 496
000031		546 x 546
000032		596 x 596
000033		446 x 646
000034		546 x 646
000035		496 x 746
000036		596 x 796

Sip. No	Kalınlık	En x Boy
000037	10 mm	156 x 156
000038		156 x 196
000039		196 x 196
000040		196 x 246
000041		246 x 246
000042		246 x 249
000043		296 x 296
000044		346 x 346
000045		246 x 396
000046		396 x 396
000047		446 x 446
000048		496 x 496
000049		546 x 546
000050		596 x 596
000051		446 x 646
000052		546 x 646
000053		496 x 746
000054		596 x 796

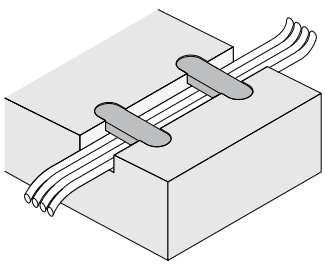






Kablo Tutucu Kapağı

Manyetik Ürün
Ekstra Delik Gerektirmez.

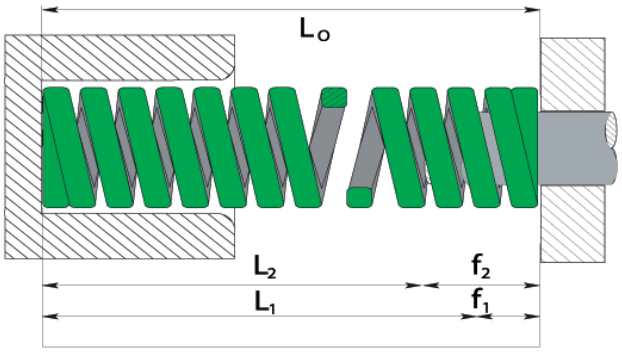


Sip. No	A	B	Malzeme	SW
000055	40	28	ABS + NfFeB	80°C
000056	60	28	ABS + NfFeB	80°C

Kablo tutucu 40 x 12 özellikle sıcak yolluklu kalıplardaki dağınık kabloların kanal içinde temiz ve düzgün durmasını sağlar.Ürün manyetik malzemedir, kendiliğinden yapışır ekstra delik delmeye gerek yoktur. Max. Kalıp sıcaklığını 80°c'nin altında kalmasını tavsiye ediyoruz. Çünkü plastik hatta mıknatıslar yüksek ısıdan etkilenip bozulabilir.

YEŞİL YAY



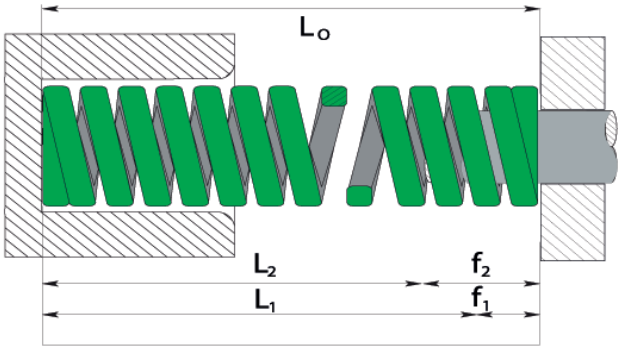


YY–Yeşil Yay

ISO 10243 | YEŞİL RAL 6002 | 80%

Sip. No	DH Dış Çap	DS İç Çap	L0 Serbest Uzunluk	RG Yük Katsayısı	fBL Maks. Esneme	A		B		C		D		E	
	mm	mm	mm	N/mm	mm	mm	N	mm	N	mm	N	mm	N	mm	N
000057	10	5	25	10	13	1.7	17	3.9	39	5.8	58	8.0	80	10.3	103
000058			32	8.5	16	2.1	18	4.9	42	7.4	63	10.2	86	13.1	111
000059			38	6.8	20	2.5	17	5.9	40	8.8	60	12.1	82	15.6	106
000060			44	6	23	2.9	18	6.8	41	10.1	61	14.0	84	18.0	108
000061			51	5	26	3.4	17	7.8	39	11.8	59	16.2	81	20.9	105
000062			64	4.3	33	4.2	18	9.8	42	14.6	63	20.2	87	26.0	112
000063			76	3.2	39	5.1	16	11.7	37	17.6	56	24.2	77	31.2	100
000064			305	1.1	156	20.3	22	46.9	52	70.3	77	96.9	107	125.0	138
000065	12.5	6.3	25	17.9	13	1.7	30	3.9	69	5.8	104	8.0	143	10.3	184
000066			32	16.4	16	2.1	35	4.9	81	7.4	121	10.2	167	13.1	215
000067			38	13.6	20	2.5	34	5.9	80	8.8	119	12.1	164	15.6	212
000068			44	12.1	23	2.9	35	6.8	82	10.1	123	14.0	169	18.0	218
000069			51	11.4	26	3.4	39	7.8	89	11.8	134	16.2	185	20.9	238
000070			64	9.3	33	4.3	40	9.9	92	14.8	138	20.4	190	26.3	245
000071			76	7.1	39	5.1	36	11.7	83	17.6	125	24.2	172	31.2	222
000072			89	5.4	46	5.9	32	13.7	74	20.5	111	28.3	153	36.5	197
000073			305	1.4	156	20.3	28	46.9	66	70.3	98	96.9	136	125.0	175
000074	16	8	25	23.4	13	1.7	39	3.9	90	5.8	136	8.0	187	10.3	241
000075			32	22.9	16	2.1	49	4.9	112	7.4	169	10.2	232	13.1	300
000076			38	19.3	20	2.5	49	5.9	113	8.8	169	12.1	233	15.6	301
000077			44	17.1	23	2.9	50	6.8	115	10.1	173	14.0	239	18.0	308
000078			51	15.7	26	3.4	53	7.8	123	11.8	185	16.2	254	20.9	328
000079			64	10.7	33	4.3	46	9.9	106	14.8	158	20.4	218	26.3	281
000080			76	10	39	5.1	51	11.7	117	17.6	176	24.2	242	31.2	312
000081			89	8.6	46	5.9	51	13.7	118	20.5	177	28.3	243	36.5	314
000082			102	7.8	52	6.8	53	15.7	122	23.5	183	32.4	253	41.8	326
000083			305	2.5	156	20.3	51	46.9	117	70.3	176	96.9	242	125.0	313
000084	20	10	25	55.8	13	1.7	92	3.8	213	5.7	320	7.9	441	10.2	569
000085			32	45	16	2.0	91	4.7	211	7.0	316	9.7	436	12.5	563
000086			38	33.3	19	2.4	81	5.6	187	8.4	281	11.6	387	15.0	500
000087			44	30	22	2.9	86	6.6	198	9.9	297	13.6	409	18.0	540
000088			51	24.5	25	3.3	80	7.5	184	11.3	276	15.5	380	20.0	490
000089			64	20	31	4.1	81	9.4	188	14.1	281	19.4	388	25.0	500
000090			76	16	37	4.8	77	11.1	178	16.7	266	22.9	367	30.0	480
000091			89	14	44	5.7	80	13.1	184	19.7	276	27.1	380	35.0	490
000092			102	12	51	6.7	80	15.4	185	23.1	277	31.8	381	41.0	492
000093			115	10.9	58	7.5	81	17.3	188	25.9	282	35.7	389	46.0	501
000094			127	9.5	64	8.3	79	19.1	182	28.7	273	39.5	375	51.0	485
000095			139	8.4	70	9.1	76	21.0	176	31.5	265	43.4	365	56.0	470
000096			152	7.5	76	9.9	74	22.9	172	34.3	257	47.3	355	61.0	458
000097			305	4	153	19.8	79	45.8	183	68.6	275	94.6	378	122.0	488
000098	25	12.5	25	100	13	1.7	166	3.8	383	5.7	574	7.9	791	10.2	1020
000099			32	80.3	16	2.0	163	4.7	376	7.0	565	9.7	778	12.5	1004
000100			38	62	19	2.4	151	5.6	349	8.4	523	11.6	721	15.0	930
000101			44	52.9	22	2.9	151	6.6	349	9.9	524	13.6	722	18.0	952
000102			51	44	25	3.3	143	7.5	330	11.3	495	15.5	682	20.0	880
000103			64	35.2	31	4.1	143	9.4	330	14.1	495	19.4	682	25.0	880
000104			76	28	37	4.8	135	11.1	311	16.7	466	22.9	642	30.0	840
000105			89	24	44	5.7	137	13.1	315	19.7	473	27.1	651	35.0	840
000106			102	21.1	51	6.7	141	15.4	324	23.1	487	31.8	670	41.0	865
000107			115	18.7	58	7.5	140	17.3	323	25.9	484	35.7	667	46.0	860
000108			127	16.7	64	8.3	138	19.1	319	28.7	479	39.5	660	51.0	852
000109			139	15.3	70	9.1	139	21.0	321	31.5	482	43.4	664	56.0	857



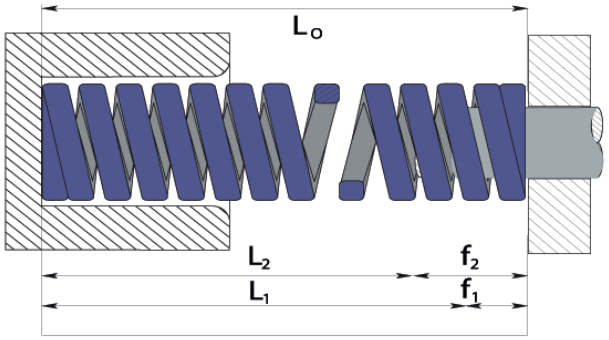


YY–Yeşil Yay

ISO 10243 | YEŞİL RAL 6002 | 80%

Sip. No	DH Dış Çap	DS İç Çap	L0 Serbest Uzunluk	RG Yük Katsayısı	fBL Maks. Esneme	A		B		C		D		E	
	mm	mm	mm	N/mm	mm	mm	N	mm	N	mm	N	mm	N	mm	N
000110	25	12.5	152	14	76	9.9	139	22.9	320	34.3	480	47.3	662	61.0	854
000111			178	12.5	89	11.5	144	26.6	333	39.9	499	55.0	688	71.0	888
000112			203	10.4	101	13.2	137	30.4	316	45.6	474	62.8	653	81.0	842
000113			305	7.0	153	19.8	139	45.8	320	68.6	480	94.6	662	122.0	854
000114	32	16	38	94.0	19	2.4	229	5.6	529	8.4	793	11.6	1093	15.0	1410
000115			44	79.5	23	2.9	233	6.8	537	10.1	805	14.0	1109	18.0	1431
000116			51	67.0	25	3.3	218	7.5	503	11.3	754	15.5	1039	20.0	1340
000117			64	53.0	31	4.1	215	9.4	497	14.1	745	19.4	1027	25.0	1325
000118			76	44.0	38	4.9	215	11.3	495	16.9	743	23.3	1023	30.0	1320
000119			89	37.2	44	5.7	212	13.1	488	19.7	732	27.1	1009	35.0	1302
000120			102	32.0	51	6.7	213	15.4	492	23.1	738	31.8	1017	41.0	1312
000121			115	29.0	58	7.5	217	17.3	500	25.9	750	35.7	1034	46.0	1334
000122			127	25.0	64	8.3	207	19.1	478	28.7	717	39.5	988	51.0	1275
000123			139	23.0	70	9.1	209	21.0	483	31.5	725	43.4	998	56.0	1288
000124			152	21.5	76	9.9	213	22.9	492	34.3	738	47.3	1016	61.0	1312
000125			178	18.2	89	11.5	210	26.6	485	39.9	727	55.0	1001	71.0	1292
000126			203	15.8	101	13.2	208	30.4	480	45.6	720	62.8	992	81.0	1280
000127			254	12.5	128	16.6	207	38.3	478	57.4	717	79.1	988	102.0	1275
000128			305	10.3	153	19.8	204	45.8	471	68.6	707	94.6	974	122.0	1257
000129	40	20	51	92.0	25	3.3	299	7.5V	690	11.3	1035	15.5	1426	20.0	1840
000130			64	73.0	31	4.1	297	9.4	684	14.1	1027	19.4	1414	25.0	1825
000131			76	63.0	38	4.9	307	11.3	709	16.9	1063	23.3	1465	30.0	1890
000132			89	51.0	44	5.7	290	13.1	669	19.7	1004	27.1	1383	35.0	1785
000133			102	43.0	51	6.7	286	15.4	661	23.1	992	31.8	1366	41.0	1763
000134			115	39.6	58	7.5	296	17.3	683	25.9	1025	35.7	1412	46.0	1822
000135			127	37.0	64	8.3	307	19.1	708	28.7	1061	39.5	1462	51.0	1887
000136			139	32.0	70	9.1	291	21.0	672	31.5	1008	43.4	1389	56.0	1792
000137			152	28.0	76	9.9	278	22.9	641	34.3	961	47.3	1324	61.0	1708
000138			178	25.2	89	11.5	291	26.6	671	39.9	1006	55.0	1387	71.0	1789
000139			203	22.7	101	13.2	299	30.4	690	45.6	1034	62.8	1425	81.0	1839
000140			254	17.0	128	16.6	282	38.3	650	57.4	975	79.1	1344	102.0	1734
000141			305	14.8	153	19.8	293	45.8	677	68.6	1016	94.6	1399	122.0	1806
000142	50	25	64	156.0	31	4.1	634	9.4	1463	14.1	2194	19.4	3023	25.0	3900
000143			76	125.0	38	4.9	609	11.3	1406	16.9	2109	23.3	2906	30.0	3750
000144			89	109.0	44	5.7	620	13.1	1431	19.7	2146	27.1	2957	35.0	3815
000145			102	94.0	51	6.7	626	15.4	1445	23.1	2168	31.8	2987	41.0	3854
000146			115	81.0	58	7.5	605	17.3	1397	25.9	2096	35.7	2888	46.0	3726
000147			127	71.0	64	8.3	588	19.1	1358	28.7	2037	39.5	2806	51.0	3621
000148			139	66.5	70	9.1	605	21.0	1397	31.5	2095	43.4	2886	56.0	3724
000149			152	60.0	76	9.9	595	22.9	1373	34.3	2059	47.3	2837	61.0	3660
000150			178	52.0	89	11.5	600	26.6	1385	39.9	2077	55.0	2861	71.0	3692
000151			203	44.0	101	13.2	579	30.4	1337	45.6	2005	62.8	2762	81.0	3564
000152			254	35.0	128	16.6	580	38.3	1339	57.4	2008	79.1	2767	102.0	3570
000153			305	28.5	153	19.8	565	45.8	1304	68.6	1956	94.6	2695	122.0	3477
000154	63	38	76	189.0	38	4.9	921	11.3	2126	16.9	3189	23.3	4394	30.0	5670
000155			89	158.0	44	5.7	899	13.1	2074	19.7	3111	27.1	4286	35.0	5530
000156			102	131.0	51	6.7	873	15.4	2014	23.1	3021	31.8	4163	41.0	5371
000157			115	116.0	58	7.5	867	17.3	2001	25.9	3002	35.7	4135	46.0	5336
000158			127	103.0	64	8.3	854	19.1	1970	28.7	2955	39.5	4071	51.0	5253
000159			152	84.3	76	9.9	836	22.9	1928	34.3	2893	47.3	3985	61.0	5142
000160			178	71.5	89	11.5	825	26.6	1904	39.9	2856	55.0	3934	71.0	5077
000161			203	61.7	101	13.2	812	30.4	1874	45.6	2811	62.8	3873	81.0	4998
000162			254	47.0	128	16.6	779	38.3	1798	57.4	2697	79.1	3715	102.0	4794
000163			305	38.2	153	19.8	757	45.8	1748	68.6	2621	94.6	3612	122.0	4660



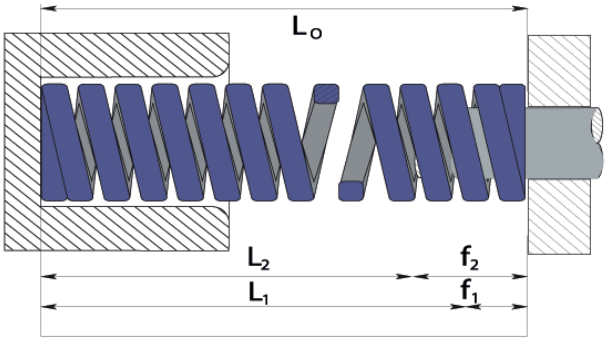


MY–Mavi Yay

ISO 10243 | MAVİ RAL 5003 | 80%

Sip. No	DH Dış Çap	DS İç Çap	L0 Serbest Uzunluk	RG Yük Katsayısı	fBL Maks. Esneme	A		B		C		D		EV	
	mm	mm	mm	N/mm	mm	mm	N	mm	N	mm	N	mm	N	mm	N
000164	10	5	25	16.0	12	1.5	25	3.6	57	5.3	86	7.4	118	9.5	152
000165			32	13.0	15	2.0	26	4.6	59	6.9	89	9.5	123	12.2	159
000166			38	11.9	18	2.3	28	5.4	64	8.1	96	11.2	133	14.4	171
000167			44	10.3	21	2.7	28	6.3	65	9.4	97	12.9	133	16.7	172
000168			51	8.9	24	3.2	28	7.3	65	10.9	97	15.0	134	19.4	173
000169			64	7.5	30	3.9	30	9.1	68	13.7	103	18.8	141	24.3	182
000170			76	5.3	36	4.7	25	10.8	57	16.3	86	22.4	119	28.9	153
000171			305	1.6	145	18.9	30	43.5	70	65.3	104	89.9	144	116.0	186
000172	12.5	6.3	25	30.0	12	1.5	46	3.6	107	5.3	160	7.4	221	9.5	285
000173			32	24.8	15	2.0	49	4.6	113	6.9	170	9.5	234	12.2	303
000174			38	21.4	18	2.3	50	5.4	116	8.1	173	11.2	239	14.4	308
000175			44	18.5	21	2.7	50	6.3	116	9.4	174	12.9	239	16.7	309
000176			51	15.5	24	3.2	49	7.3	113	10.9	169	15.0	233	19.4	301
000177			64	12.1	30	3.9	48	9.1	110	13.7	165	18.8	228	24.3	294
000178			76	10.2	36	4.7	48	10.8	111	16.3	166	22.4	228	28.9	295
000179			89	8.4	42	5.5	46	12.7	106	19.0	160	26.2	220	33.8	284
000180			305	2.1	145	18.9	40	43.5	91	65.3	137	89.9	189	116.0	244
000181	16	8	25	49.4	12	1.5	76	3.6	176	5.3	264	7.4	364	9.5	469
000182			32	37.1	15	2.0	74	4.6	170	6.9	255	9.5	351	12.2	453
000183			38	33.9	18	2.3	79	5.4	183	8.1	275	11.2	378	14.4	488
000184			44	30.0	21	2.7	81	6.3	188	9.4	282	12.9	388	16.7	501
000185			51	26.4	24	3.2	83	7.3	192	10.9	288	15.0	397	19.4	512
000186			64	20.5	30	3.9	81	9.1	187	13.7	280	18.8	386	24.3	498
000187			76	17.8	36	4.7	84	10.8	193	16.3	289	22.4	399	28.9	514
000188			89	15.2	42	5.5	83	12.7	193	19.0	289	26.2	398	33.8	514
000189			102	13.5	49	6.3	85	14.6	196	21.8	295	30.1	406	38.8	524
000190			305	4.8	145	18.9	90	43.5	209	65.3	313	89.9	432	116.0	557
000191	20	10	25	98.0	12	1.5	150	3.5	345	5.3	518	7.3	714	9.4	921
000192			32	72.6	15	2.0	142	4.5	327	6.8	490	9.3	675	12.0	871
000193			38	54.0	18	2.3	127	5.3	294	7.9	441	10.9	608	14.0	784
000194			44	47.5	21	2.7	127	6.2	294	9.3	441	12.8	607	16.5	784
000195			51	41.7	24	3.1	129	7.1	297	10.7	446	14.7	614	19.0	792
000196			64	32.3	30	3.9	126	9.0	291	13.5	436	18.6	601	24.0	775
000197			76	25.1	35	4.6	114	10.5	264	15.8	395	21.7	545	28.0	703
000198			89	22.0	41	5.4	118	12.4	272	18.6	408	25.6	563	33.0	726
000199			102	19.8	48	6.2	122	14.3	282	21.4	423	29.5	583	38.0	752
000200			115	18.1	54	7.0	126	16.1	292	24.2	438	33.3	603	43.0	778
000201			127	16.6	60	7.8	129	18.0	299	27.0	448	37.2	618	48.0	797
000202			139	15.1	65	8.5	128	19.5	294	29.3	442	40.3	609	52.0	785
000203			152	13.2	71	9.3	122	21.4	282	32.1	423	44.2	583	57.0	752
000204			305	6.1	143	18.5	113	42.8	261	64.1	391	88.4	539	114.0	695
000205	25	12.5	25	147.0	12	1.5	225	3.5	518	5.3	777	7.3	1071	9.4	1382
000206			32	118.0	15	2.0	230	4.5	531	6.8	797	9.3	1097	12.0	1416
000207			38	93.0	18	2.3	212	5.3	488	7.9	732	10.9	1009	14.0	1302
000208			44	80.8	21	2.7	217	6.2	500	9.3	750	12.8	1033	16.5	1333
000209			51	68.6	24	3.1	212	7.1	489	10.7	733	14.7	1010	19.0	1303
000210			64	53.0	30	3.9	207	9.0	477	13.5	716	18.6	986	24.0	1272
000211			76	43.2	35	4.6	197	10.5	454	15.8	680	21.7	937	28.0	1210
000212			89	38.2	41	5.4	205	12.4	473	18.6	709	25.6	977	33.0	1261
000213			102	33.0	48	6.2	204	14.3	470	21.4	705	29.5	972	38.0	1254
000214			115	28.0	54	7.0	196	16.1	452	24.2	677	33.3	933	43.0	1204
000215			127	25.9	60	7.8	202	18.0	466	27.0	699	37.2	963	48.0	1243
000216			139	23.2	65	8.5	196	19.5	452	29.3	679	40.3	935	52.0	1206
000217			152	20.8	71	9.3	193	21.4	445	32.1	667	44.2	919	57.0	1186
000218			178	17.8	84	10.9	194	25.1	447	37.7	671	51.9	924	67.0	1193



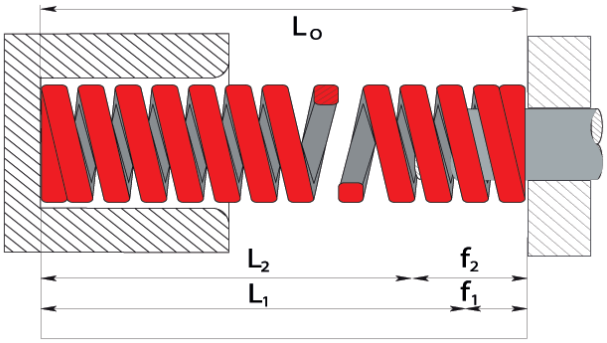


MY–Mavi Yay

ISO 10243 | MAVİ RAL 5003 | 80%

Sip. No	DH Dış Çap	DS İç Çap	L0 Serbest Uzunluk	RG Yük Katsayısı	fBL Maks. Esneme	A		B		C		D		E	
	mm	mm	mm	N/mm	mm	mm	N	mm	N	mm	N	mm	N	mm	N
000219	25	12.5	203	15.8	95	12.4	195	28.5	450	42.8	675	58.9	931	76.0	1201
000220			305	10.2	143	18.5	189	42.8	436	64.1	654	88.4	901	114.0	1163
000221	32	16	38	185.0	18	2.3	421	5.3	971	7.9	1457	10.9	2007	14.0	2590
000222			44	158.0	21	2.7	424	6.2	978	9.3	1466	12.8	2020	16.5	2607
000223			51	134.0	24	3.1	414	7.1	955	10.7	1432	14.7	1973	19.0	2546
000224			64	99.0	30	3.9	386	9.0	891	13.5	1337	18.6	1841	24.0	2376
000225			76	80.5	35	4.6	366	10.5	845	15.8	1268	21.7	1747	28.0	2254
000226			89	69.1	41	5.4	371	12.4	855	18.6	1283	25.6	1767	33.0	2280
000227			102	58.8	48	6.2	363	14.3	838	21.4	1257	29.5	1732	38.0	2234
000228			115	51.5	54	7.0	360	16.1	830	24.2	1246	33.3	1716	43.0	2215
000229			127	44.8	60	7.8	349	18.0	806	27.0	1210	37.2	1667	48.0	2150
000230			139	42.3	65	8.5	357	19.5	825	29.3	1237	40.3	1705	52.0	2200
000231			152	37.8	71	9.3	350	21.4	808	32.1	1212	44.2	1670	57.0	2155
000232			178	32.5	84	10.9	354	25.1	817	37.7	1225	51.9	1688	67.0	2178
000233			203	28.9	95	12.4	357	28.5	824	42.8	1235	58.9	1702	76.0	2196
000234			254	21.4	119	15.4	330	35.6	762	53.4	1144	73.6	1576	95.0	2033
000235			305	18.3	143	18.5	339	42.8	782	64.1	1173	88.4	1617	114.0	2086
000236	40	20	51	181.6	24	3.1	561	7.1	1294	10.7	1941	14.7	2674	19.0	3450
000237			64	140.0	30	3.9	546	9.0	1260	13.5	1890	18.6	2604	24.0	3360
000238			76	108.0	35	4.6	491	10.5	1134	15.8	1701	21.7	2344	28.0	3024
000239			89	90.7	41	5.4	486	12.4	1122	18.6	1684	25.6	2320	33.0	2993
000240			102	81.0	48	6.2	500	14.3	1154	21.4	1731	29.5	2385	38.0	3078
000241			115	71.8	54	7.0	502	16.1	1158	24.2	1737	33.3	2393	43.0	3087
000242			127	62.7	60	7.8	489	18.0	1129	27.0	1693	37.2	2332	48.0	3010
000243			139	57.5	65	8.5	486	19.5	1121	29.3	1682	40.3	2317	52.0	2990
000244			152	51.6	71	9.3	478	21.4	1103	32.1	1654	44.2	2279	57.0	2941
000245			178	44.1	84	10.9	480	25.1	1108	37.7	1662	51.9	2290	67.0	2955
000246			203	36.7	95	12.4	453	28.5	1046	42.8	1569	58.9	2162	76.0	2789
000247			254	30.1	119	15.4	465	35.6	1072	53.4	1608	73.6	2216	95.0	2860
000248			305	24.6	143	18.5	456	42.8	1052	64.1	1577	88.4	2173	114.0	2804
000249	50	25	64	209.0	30	3.9	815	9.0	1881	13.5	2822	18.6	3887	24.0	5016
000250			76	168.0	35	4.6	764	10.5	1764	15.8	2646	21.7	3646	28.0	4704
000251			89	140.0	41	5.4	751	12.4	1733	18.6	2599	25.6	3581	33.0	4620
000252			102	119.0	48	6.2	735	14.3	1696	21.4	2544	29.5	3505	38.0	4522
000253			115	106.0	54	7.0	741	16.1	1709	24.2	2564	33.3	3532	43.0	4558
000254			127	97.0	60	7.8	757	18.0	1746	27.0	2619	37.2	3608	48.0	4656
000255			139	87.0	65	8.5	735	19.5	1697	29.3	2545	40.3	3506	52.0	4524
000256			152	80.0	71	9.3	741	21.4	1710	32.1	2565	44.2	3534	57.0	4560
000257			178	69.5	84	10.9	757	25.1	1746	37.7	2619	51.9	3609	67.0	4657
000258			203	59.8	95	12.4	739	28.5	1704	42.8	2556	58.9	3522	76.0	4545
000259			229	50.9	108	14.0	711	32.3	1642	48.4	2462	66.7	3392	86.0	4377
000260			254	43.9	119	15.4	678	35.6	1564	53.4	2346	73.6	3232	95.0	4171
000261			305	38.6	143	18.5	715	42.8	1650	64.1	2475	88.4	3410	114.0	4400
000262	63	38	76	312.0	35	4.6	1420	10.5	3276	15.8	4914	21.7	6770	28.0	8736
000263			89	260.0	41	5.4	1394	12.4	3218	18.6	4826	25.6	6650	33.0	8580
000264			102	221.0	48	6.2	1365	14.3	3149	21.4	4724	29.5	6508	38.0	8398
000265			115	187.0	54	7.0	1307	16.1	3015	24.2	4523	33.3	6232	43.0	8041
000266			127	168.0	60	7.8	1310	18.0	3024	27.0	4536	37.2	6250	48.0	8064
000267			152	136.0	71	9.3	1260	21.4	2907	32.1	4361	44.2	6008	57.0	7752
000268			178	114.0	84	10.9	1241	25.1	2864	37.7	4296	51.9	5919	67.0	7638
000269			203	100.0	95	12.4	1235	28.5	2850	42.8	4275	58.9	5890	76.0	7600
000270			229	89.2	108	14.0	1247	32.3	2877	48.4	4315	66.7	5945	86.0	7671
000271			254	78.4	119	15.4	1210	35.6	2793	53.4	4190	73.6	5772	95.0	7448
000272			305	64.7	143	18.5	1199	42.8	2766	64.1	4149	88.4	5716	114.0	7376





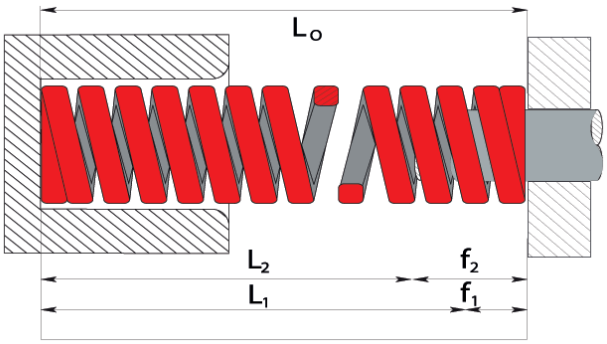
KY–Kırmızı Yay

ISO 10243 | KIRMIZI RAL 3000 | 80%

Sip. No	DH Dış Çap	DS İç Çap	L0 Serbest Uzunluk	RG Yük Katsayısı	fBL Maks. Esneme	A		B		C		D		E	
	mm	mm	mm	N/mm	mm	mm	N	mm	N	mm	N	mm	N	mm	N
000273	10	5	25	22.1	9	1.2	27	2.8	62	4.2	93	5.8	129	7.5	166
000274			32	17.5	12	1.6	27	3.6	63	5.4	95	7.4	130	9.6	168
000275			38	17.1	14	1.9	32	4.3	73	6.4	110	8.8	151	11.4	195
000276			44	15.0	17	2.1	32	5.0	74	7.4	111	10.2	153	13.2	198
000277			51	12.8	19	2.5	32	5.7	73	8.6	110	11.9	152	15.3	196
000278			64	10.7	24	3.1	33	7.2	77	10.8	116	14.9	159	19.2	205
000279			76	7.5	29	3.7	28	8.6	64	12.8	96	17.7	133	22.8	171
000280			305	2.1	114	14.9	31	34.3	72	51.5	108	70.9	149	91.5	192
000281	12.5	6.3	25	42.1	9	1.2	51	2.8	118	4.2	178	5.8	245	7.5	316
000282			32	33.2	12	1.6	52	3.6	120	5.4	179	7.4	247	9.6	319
000283			38	29.3	14	1.9	54	4.3	125	6.4	188	8.8	259	11.4	334
000284			44	24.6	17	2.1	53	5.0	122	7.4	183	10.2	252	13.2	325
000285			51	19.6	19	2.5	49	5.7	113	8.6	169	11.9	232	15.3	300
000286			64	15.0	24	3.1	47	7.2	108	10.8	162	14.9	223	19.2	288
000287			76	13.2	29	3.7	49	8.6	113	12.8	169	17.7	233	22.8	301
000288			89	11.4	33	4.3	50	10.0	114	15.0	171	20.7	236	26.7	304
000289			305	2.8	114	14.9	42	34.3	96	51.5	144	70.9	199	91.5	256
000290	16	8	25	75.7	9	1.2	92	2.8	213	4.2	319	5.8	440	7.5	568
000291			32	52.8	12	1.6	82	3.6	190	5.4	285	7.4	393	9.6	507
000292			38	48.5	14	1.9	90	4.3	207	6.4	311	8.8	429	11.4	553
000293			44	42.8	17	2.1	92	5.0	212	7.4	318	10.2	438	13.2	565
000294			51	37.1	19	2.5	92	5.7	213	8.6	319	11.9	440	15.3	568
000295			64	30.3	24	3.1	95	7.2	218	10.8	327	14.9	451	19.2	582
000296			76	25.7	29	3.7	95	8.6	20	12.8	330	17.7	454	22.8	586
000297			89	21.7	33	4.3	94	10.0	217	15.0	326	20.7	449	26.7	579
000298			102	19.3	38	5.0	96	11.5	222	17.2	332	23.7	458	30.6	591
000299			305	7.1	114	14.9	106	34.3	244	51.5	365	70.9	504	91.5	650
000300	20	10	25	216.0	9	1.2	263	2.8	608	4.2	911	5.8	1256	7.5	1620
000301			32	168.0	12	1.6	262	3.6	605	5.4	907	7.4	1250	9.6	1612
000302			38	129.0	14	1.8	231	4.1	532	6.2	798	8.5	1100	11.0	1419
000303			44	112.0	16	2.1	237	4.9	546	7.3	819	10.1	1128	13.0	1456
000304			51	94.0	19	2.4	229	5.6	529	8.4	793	11.6	1093	15.0	1410
000305			64	72.1	24	3.1	223	7.1	514	10.7	771	14.7	1062	19.0	1370
000306			76	59.7	29	3.7	223	8.6	515	12.9	772	17.8	1064	23.0	1373
000307			89	50.5	34	4.4	222	10.1	511	15.2	767	20.9	1057	27.0	1364
000308			102	44.2	39	5.0	223	11.6	514	17.4	771	24.0	1062	31.0	1370
000309			115	38.4	44	5.7	218	13.1	504	19.7	756	27.1	1042	35.0	1344
000310			127	34.1	48	6.2	211	14.3	486	21.4	729	29.4	1004	38.0	1296
000311			139	31.0	53	6.8	212	15.8	488	23.6	732	32.5	1009	42.0	1302
000312			152	28.2	58	7.5	211	17.2	486	25.9	730	35.6	1005	46.0	1297
000313			305	15.0	114	14.8	222	34.1	512	51.2	768	70.5	1058	91.0	1365
000314	25	12.5	25	375.0	9	1.2	457	2.8	1055	4.2	1582	5.8	2180	7.5	2813
000315			32	297.0	12	1.6	463	3.6	1069	5.4	1604	7.4	2210	9.6	2851
000316			38	219.0	14	1.8	392	4.1	903	6.2	1355	8.5	1867	11.0	2409
000317			44	187.0	16	2.1	395	4.9	312	7.3	1367	10.1	1884	13.0	2431
000318			51	156.0	19	2.4	380	5.6	878	8.4	1316	11.6	1814	15.0	2340
000319			64	123.0	24	3.1	380	7.1	876	10.7	1315	14.7	1811	19.0	2337
000320			76	99.0	29	3.7	370	8.6	854	12.9	1281	17.8	1765	23.0	2277
000321			89	84.0	34	4.4	369	10.1	851	15.2	1276	20.9	1758	27.0	2268
000322			102	73.0	39	5.0	36	11.6	849	17.4	1273	24.0	1754	31.0	2263
000323			115	65.0	44	5.7	370	13.1	853	19.7	1280	27.1	1764	35.0	2276
000324			127	57.7	48	6.2	356	14.3	822	21.4	1233	29.4	1699	38.0	2193
000325			139	52.7	53	6.8	360	15.8	830	23.6	1245	32.5	1715	42.0	2213
000326			152	47.8	58	7.5	357	17.2	825	25.9	1237	35.6	1704	46.0	2199

KIRMIZI YAY



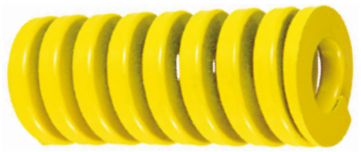


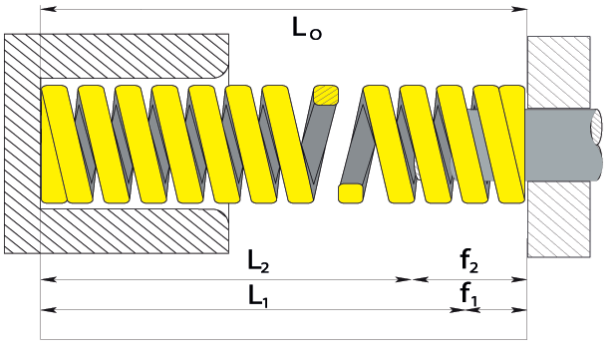
KY–Kırmızı Yay

ISO 10243 | KIRMIZI RAL 3000 | 80%

Sip. No	DH Dış Çap	DS İç Çap	L0 Serbest Uzunluk	RG Yük Katsayısı	fBL Maks. Esneme	A		B		C		D		E	
	mm	mm	mm	N/mm	mm	mm	N	mm	N	mm	N	mm	N	mm	N
000327	25	12.5	152	47.8	58	7.5	357	17.2	825	25.9	1237	35.6	1704	46.0	2199
000328			178	41.0	66	8.6	353	19.9	815	29.8	1222	41.1	1684	53.0	2173
000329			203	35.8	76	9.9	355	22.9	819	34.3	1228	47.3	1692	61.0	2184
000330			305	22.9	114	14.8	339	34.1	782	51.2	1172	70.5	1615	91.0	2084
000331	32	16	38	388.0	14	1.8	694	4.1	1601	6.2	2401	8.5	3308	11.0	4268
000332			44	324.0	16	2.1	685	4.9	1580	7.3	2369	10.1	3264	13.0	4212
000333			51	272.0	19	2.4	663	5.6	1530	8.4	2295	11.6	3162	15.0	4080
000334			64	212.0	24	3.1	655	7.1	1511	10.7	2266	14.7	3122	19.0	4028
000335			76	172.0	29	3.7	643	8.6	1484	12.9	2225	17.8	3066	23.0	3956
000336			89	141.0	34	4.4	619	10.1	1428	15.2	2141	20.9	2950	27.0	3807
000337			102	122.0	39	5.0	615	11.6	1418	17.4	2127	24.0	2931	31.0	3782
000338			115	107.0	44	5.7	609	13.1	1404	19.7	2107	27.1	2902	35.0	3745
000339			127	93.0	48	6.2	574	14.3	1325	21.4	1988	29.4	2739	38.0	3534
000340			139	86.0	53	6.8	587	15.8	1355	23.6	2032	32.5	2799	42.0	3612
000341			152	78.0	58	7.5	583	17.2	1346	25.9	2018	35.6	2781	46.0	3588
000342			178	67.2	66	8.6	579	19.9	1336	29.8	2003	41.1	2760	53.0	3562
000343			203	59.1	76	9.9	586	22.9	1352	34.3	2028	47.3	2794	61.0	3605
000344			254	46.4	95	12.4	573	28.5	1322	42.8	1984	58.9	2733	76.0	3526
000345			305	38.0	114	14.8	562	34.1	1297	51.2	1945	70.5	2680	91.0	3458
000346	40	20	51	350.0	19	2.4	853	5.6	1969	8.4	2953	11.6	4069	15.0	5250
000347			64	269.0	24	3.1	831	7.1	1917	10.7	2875	14.7	3961	19.0	5111
000348			76	219.0	29	3.7	819	8.6	1889	12.9	2833	17.8	3904	23.0	5037
000349			89	190.0	34	4.4	834	10.1	1924	15.2	2886	20.9	3976	27.0	5130
000350			102	163.0	39	5.0	821	11.6	1895	17.4	2842	24.0	3916	31.0	5053
000351			115	142.0	44	5.7	808	13.1	1864	19.7	2796	27.1	3852	35.0	4970
000352			127	128.0	48	6.2	790	14.3	1824	21.4	2736	29.4	3770	38.0	4864
000353			139	115.0	53	6.8	785	15.8	1811	23.6	2717	32.5	3743	42.0	4830
000354			152	105.0	58	7.5	785	17.2	1811	25.9	2717	35.6	3743	46.0	4830
000355			178	89.0	66	8.6	767	19.9	1769	29.8	2653	41.1	3656	53.0	4717
000356			203	77.0	76	9.9	763	22.9	1761	34.3	2642	47.3	3640	61.0	4697
000357			254	61.0	95	12.4	753	28.5	1739	42.8	2608	58.9	3593	76.0	4636
000358			305	51.0	114	14.8	754	34.1	1740	51.2	2611	70.5	3597	91.0	4641
000359	50	25	64	413.0	24	3.1	1275	7.1	2943	10.7	4414	14.7	6081	19.0	7847
000360			76	339.0	29	3.7	1267	8.6	2924	12.9	4386	17.8	6043	23.0	7797
000361			89	288.0	34	4.4	1264	10.1	2916	15.2	4374	20.9	6026	27.0	7776
000362			102	245.0	39	5.0	1234	11.6	2848	17.4	4272	24.0	5886	31.0	7595
000363			115	215.0	44	5.7	1223	13.1	2822	19.7	4233	27.1	5832	35.0	7525
000364			127	192.0	48	6.2	1186	14.3	2736	21.4	4104	29.4	5654	38.0	7296
000365			139	168.0	53	6.8	1147	15.8	2646	23.6	3969	32.5	5468	42.0	7056
000366			152	154.0	58	7.5	1151	17.2	2657	25.9	3985	35.6	5490	46.0	7084
000367			178	134.0	66	8.6	1154	19.9	2663	29.8	3995	41.1	5504	53.0	7102
000368			203	117.0	76	9.9	1160	22.9	2676	34.3	4015	47.3	5531	61.0	7137
000369			254	89.0	95	12.4	1099	28.5	2537	42.8	3805	58.9	5242	76.0	6764
000370			305	73.0	114	14.8	1080	34.1	2491	51.2	3737	70.5	5148	91.0	6643
000371	63	38	76	618.0	29	3.7	2310	8.6	5330	12.9	7995	17.8	11016	23.0	14214
000372			89	515.0	34	4.4	2260	10.1	5214	15.2	7822	20.9	10776	27.0	13905
000373			102	438.0	39	5.0	2206	11.6	5092	17.4	7638	24.0	10523	31.0	13578
000374			115	370.0	44	5.7	2104	13.1	4856	19.7	7284	27.1	10036	35.0	12950
000375			127	333.0	48	6.2	2056	14.3	4745	21.4	7118	29.4	9807	38.0	12654
000376			152	269.0	58	7.5	2011	17.2	4640	25.9	6960	35.6	9590	46.0	12374
000377			178	226.0	66	8.6	1946	19.9	4492	29.8	6738	41.1	9283	53.0	11978
000378			203	198.0	76	9.9	1963	22.9	4529	34.3	6794	47.3	9361	61.0	12078
000379			254	155.0	95	12.4	1914	28.5	4418	42.8	6626	58.9	9130	76.0	11780
000380			305	128.0	114	14.8	1893	34.1	4368	51.2	6552	70.5	9027	91.0	11648

SARI YAY

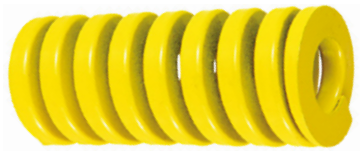


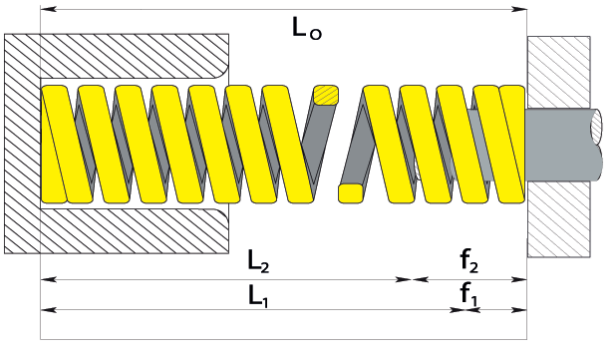


SY–Sarı Yay

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Sip. No	DH Dış Çap	DS İç Çap	L0 Serbest Uzunluk	RG Yük Katsayısı	fBL Maks. Esneme	A		B		C		D		E	
	mm	mm	mm	N/mm	mm	mm	N	mm	N	mm	N	mm	N	mm	N
000381	10	5	25	36.8	8	1.0	37	2.3	86	3.5	128	4.8	177	6.2	228
000382			32	27.9	10	1.3	36	3.0	84	4.5	126	6.2	173	8.0	223
000383			38	23.7	12	1.5	37	3.6	84	5.3	127	7.4	175	9.5	225
000384			44	19.2	14	1.8	34	4.1	79	6.2	119	8.5	164	11.0	211
000385			51	16.5	16	2.1	35	4.9	80	7.3	121	10.1	166	13.0	215
000386			64	13.2	20	2.6	34	6.0	79	9.0	119	12.4	164	16.0	211
000387			76	10.9	24	3.1	34	7.1	78	10.7	117	14.7	161	19.0	207
000388			305	2.6	95	12.4	32	28.5	74	42.8	111	58.9	153	76.0	198
000389	12.5	6.3	25	58.5	8	1.0	59	2.3	136	3.5	204	4.8	281	6.2	363
000390			32	43.9	10	1.3	57	3.0	132	4.5	198	6.2	272	8.0	351
000391			38	36.0	12	1.5	56	3.6	128	5.3	192	7.4	265	9.5	342
000392			44	30.3	14	1.8	54	4.1	125	6.2	188	8.5	258	11.0	333
000393			51	26.2	16	2.1	55	4.9	128	7.3	192	10.1	264	13.0	341
000394			64	21.2	20	2.6	55	6.0	127	9.0	191	12.4	263	16.0	339
000395			76	17.1	24	3.1	53	7.1	122	10.7	183	14.7	252	19.0	325
000396			89	14.5	28	3.6	52	8.3	120	12.4	179	17.1	247	22.0	319
000397			305	4.3	95	12.4	53	28.5	123	42.8	184	58.9	253	76.0	327
000398	16	8	25	118.0	8	1.0	119	2.3	274	3.5	412	4.8	567	6.2	732
000399			32	89.0	10	1.3	116	3.0	267	4.5	401	6.2	552	8.0	712
000400			38	72.1	12	1.5	111	3.6	257	5.3	385	7.4	531	9.5	685
000401			44	60.9	14	1.8	109	4.1	251	6.2	377	8.5	519	11.0	670
000402			51	52.3	16	2.1	111	4.9	255	7.3	382	10.1	527	13.0	680
000403			64	41.2	20	2.6	107	6.0	247	9.0	371	12.4	511	16.0	659
000404			76	34.1	24	3.1	105	7.1	243	10.7	364	14.7	502	19.0	648
000405			89	29.5	28	3.6	106	8.3	243	12.4	365	17.1	503	22.0	649
000406			102	25.6	33	4.2	108	9.8	250	14.6	374	20.1	516	26.0	666
000407			305	8.4	95	12.4	104	28.5	239	42.8	359	58.9	495	76.0	638
000408	20	10	25	229.0	8	1.0	295	2.3	681	3.5	1022	4.8	1408	6.2	1817
000409			32	224.0	10	1.3	291	3.0	672	4.5	1008	6.2	1389	8.0	1792
000410			38	117.0	12	1.5	273	3.6	631	5.3	946	7.4	1303	9.5	1682
000411			44	149.0	14	1.8	266	4.1	615	6.2	922	8.5	1270	11.0	1639
000412			51	128.0	16	2.1	270	4.9	624	7.3	936	10.1	1290	13.0	1664
000413			64	99.0	20	2.6	257	6.0	594	9.0	891	12.4	1228	16.0	1584
000414			76	81.7	24	3.1	252	7.1	582	10.7	873	14.7	1203	19.0	1552
000415			89	69.5	28	3.6	249	8.3	573	12.4	860	17.1	1185	22.0	1529
000416			102	60.6	33	4.2	256	9.8	591	14.6	886	20.1	1221	26.0	1576
000417			115	53.0	36	4.7	250	10.9	576	16.3	865	22.5	1191	29.0	1537
000418			127	47.5	40	5.2	247	12.0	570	18.0	855	24.8	1178	32.0	1520
000419			139	43.0	44	5.7	245	13.1	564	19.7	847	27.1	1166	35.0	1505
000420			152	39.0	48	6.2	241	14.3	556	21.4	834	29.4	1149	38.0	1482
000421			305	21.2	95	12.4	262	28.5	604	42.8	906	58.9	1249	76.0	1611
000422	25	12.5	25	459.0	8	1.0	462	2.3	1067	3.5	1601	4.8	2206	6.2	2846
000423			32	374.4	10	1.3	487	3.0	1123	4.5	1685	6.2	2321	8.0	2995
000424			38	346.0	12	1.5	534	3.6	1233	5.3	1849	7.4	2547	9.5	3287
000425			44	244.0	14	1.8	436	4.1	1007	6.2	1510	8.5	2080	11.0	2684
000426			51	207.5	16	2.1	438	4.9	1012	7.3	1517	10.1	2091	13.0	2698
000427			64	161.0	20	2.6	419	6.0	966	9.0	1449	12.4	1996	16.0	2576
000428			76	130.8	24	3.1	404	7.1	932	10.7	1398	14.7	1926	19.0	2485
000429			89	110.5	28	3.6	395	8.3	912	12.4	1367	17.1	1884	22.0	2431
000430			102	96.3	33	4.2	407	9.8	939	14.6	1408	20.1	1940	26.0	2504
000431			115	85.7	36	4.7	404	10.9	932	16.3	1398	22.5	1926	29.0	2485
000432			127	76.3	40	5.2	397	12.0	916	18.0	1373	24.8	1892	32.0	2442
000433			139	68.9	44	5.7	392	13.1	904	19.7	1357	27.1	1869	35.0	2412





SY–Sarı Yay

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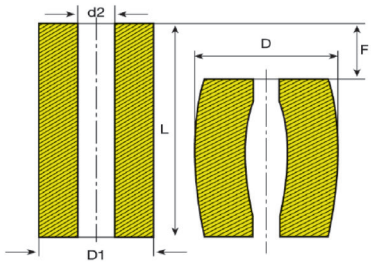
Sip. No	DH Dış Çap	DS İç Çap	L0 Serbest Uzunluk	RG Yük Katsayısı	fBL Maks. Esneme	A		B		C		D		E	
	mm	mm	mm	N/mm	mm	mm	N	mm	N	mm	N	mm	N	mm	N
000434	25	12.5	152	63.5	48	6.2	392	14.3	905	21.4	1357	29.4	1870	38.0	2413
000435			178	53.9	55	7.2	385	16.5	889	24.8	1334	34.1	1838	44.0	2372
000436			203	47.0	64	8.3	390	19.1	899	28.7	1348	39.5	1858	51.0	2397
000437			305	30.9	95	12.4	382	28.5	881	42.8	1321	58.9	1820	76.0	2348
000438	32	16	38	528.2	12	1.5	815	3.6	1882	5.3	2823	7.4	3889	9.5	5018
000439			44	424.4	14	1.8	759	4.1	1751	6.2	2626	8.5	3618	11.0	4668
000440			51	353.0	16	2.1	746	4.9	1721	7.3	2581	10.1	3557	13.0	4589
000441			64	269.2	20	2.6	700	6.0	1615	9.0	2423	12.4	3338	16.0	4307
000442			76	218.5	24	3.1	675	7.1	1557	10.7	2335	14.7	3217	19.0	4152
000443			89	180.3	28	3.6	645	8.3	1488	12.4	2231	17.1	3074	22.0	3967
000444			102	155.0	33	4.2	655	9.8	1511	14.6	2267	20.1	3123	26.0	4030
000445			115	140.0	36	4.7	660	10.9	1523	16.3	2284	22.5	3147	29.0	4060
000446			127	124.0	40	5.2	645	12.0	1488	18.0	2232	24.8	3075	32.0	3968
000447			139	112.3	44	5.7	639	13.1	1474	19.7	2211	27.1	3046	35.0	3931
000448			152	102.0	48	6.2	630	14.3	1454	21.4	2180	29.4	3004	38.0	3876
000449			178	88.2	55	7.2	631	16.5	1455	24.8	2183	34.1	3008	44.0	3881
000450			203	76.0	64	8.3	630	19.1	1454	28.7	2180	39.5	3004	51.0	3876
000451			254	60.8	80	10.4	632	24.0	1459	36.0	2189	49.6	3016	64.0	3891
000452			305	49.0	95	12.4	605	28.5	1397	42.8	2095	58.9	2886	76.0	3724
000453	40	20	51	628.0	16	2.1	1327	4.9	3062	7.3	4592	10.1	6327	13.0	8164
000454			64	487.0	20	2.6	1266	6.0	2922	9.0	4383	12.4	6039	16.0	7792
000455			76	379.0	24	3.1	1170	7.1	2700	10.7	4051	14.7	5581	19.0	7201
000456			89	321.0	28	3.6	1148	8.3	2648	12.4	3972	17.1	5473	22.0	7062
000457			102	281.0	33	4.2	1187	9.8	2740	14.6	4110	20.1	5662	26.0	7306
000458			115	245.0	36	4.7	1155	10.9	2664	16.3	3997	22.5	5506	29.0	7105
000459			127	221.0	40	5.2	1149	12.0	2652	18.0	3978	24.8	5481	32.0	7072
000460			139	190.0	44	5.7	1081	13.1	2494	19.7	3741	27.1	5154	35.0	650
000461			152	168.0	48	6.2	1037	14.3	2394	21.4	3591	29.4	4948	38.0	6384
000462			178	146.0	55	7.2	1044	16.5	2409	24.8	3614	34.1	4979	44.0	6424
000463			203	132.0	64	8.3	1094	19.1	2525	28.7	3787	39.5	5217	51.0	6732
000464			254	107.0	80	10.4	1113	24.0	2568	36.0	3852	49.6	5307	64.0	6848
000465			305	87.8	95	12.4	1084	28.5	2502	42.8	3753	58.9	5171	76.0	6673
000466	50	25	64	709.0	20	2.6	1843	6.0	4254	9.0	6381	12.4	8792	16.0	13344
000467			76	572.0	24	3.1	1766	7.1	4076	10.7	6113	14.7	8423	19.0	10868
000468			89	475.0	28	3.6	1698	8.3	3919	12.4	5878	17.1	8099	22.0	10450
000469			102	405.0	33	4.2	1711	9.8	3949	14.6	5923	20.1	8161	26.0	10530
000470			115	352.0	36	4.7	1659	10.9	3828	16.3	5742	22.5	7911	29.0	10208
000471			127	316.0	40	5.2	1643	12.0	3792	18.0	5688	24.8	7837	32.0	10112
000472			139	274.0	44	5.7	1558	13.1	3596	19.7	5394	27.1	7432	35.0	9590
000473			152	239.0	48	6.2	1476	14.3	3406	21.4	5109	29.4	7039	38.0	9082
000474			178	215.0	55	7.2	1537	16.5	3548	24.8	5321	34.1	7332	44.0	9460
000475			203	187.0	64	8.3	1550	19.1	3576	28.7	5365	39.5	7391	51.0	9537
000476			254	153.0	80	10.4	1591	24.0	3672	36.0	5508	49.6	7589	64.0	9792
000477			305	127.0	95	12.4	1569	28.5	3620	42.8	5429	58.9	7480	76.0	9652
000478	63	38	76	952.0	24	3.1	2939	7.1	6783	10.7	10175	14.7	14018	19.0	18088
000479			89	819.0	28	3.6	2928	8.3	6757	12.4	10135	17.1	13964	22.0	18018
000480			102	700.0	33	4.2	2958	9.8	6825	14.6	10238	20.1	14105	26.0	18200
000481			115	620.0	36	4.7	2922	10.9	6743	16.3	10114	22.5	13935	29.0	17980
000482			127	565.0	40	5.2	2938	12.0	6780	18.0	10170	24.8	14012	32.0	18080
000483			152	458.0	48	6.2	2828	14.3	6527	21.4	9790	29.4	13488	38.0	17404
000484			178	384.0	55	7.2	2746	16.5	6336	24.8	9504	34.1	13094	44.0	16896
000485			203	337.0	64	8.3	2793	19.1	6445	28.7	9668	39.5	13320	51.0	17187
000486			254	263.0	80	10.4	2735	24.0	6312	36.0	9468	49.6	13045	64.0	16832
000487			305	218.0	95	12.4	2692	28.5	6213	42.8	9320	58.9	12840	76.0	16568

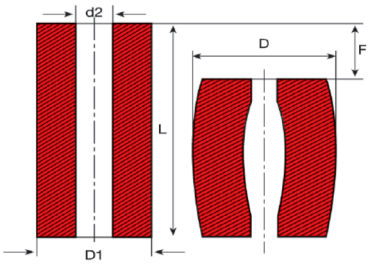


Vulkolon- Poliüretan Yaylar

80 Shore *Maksimum esneme payı %30*

90 Shore *Maksimum esneme payı %25*



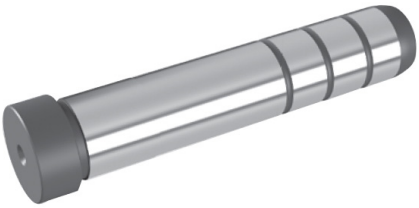


D1	d2	L	Sarı (80 Shore)			Kırmızı (90 Shore)		
			P	D	F	P	D	F
16	-	12	179	21	3.6	226	20	3
		16	173		4.8	218		5
		20	170		6	212		5
		25	165		7.5	208		6.25
		32	160		9.6	200		8
20	8.5	12	274	26	3.6	334	25	3
		16	270		4.8	330		5
		20	260		6	324		5
		25	254		7.5	320		6.25
		32	250		9.6	308		8
25	10.5	16	437	33	4.8	540	31	4
		20	425		6	530		5
		25	412		7.5	520		6.25
		32	40		9.6	510		8
		40	380		12	50		10
		50	365		15	480		12.5
32	13.5	16	730	42	4.8	930	40	4
		20	720		6	900		5
		25	690		7.5	880		6.25
		32	670		9.6	850		8
		40	650		12	820		10
		50	635		15	810		12.5
40	13.5	20	1280	52	6	1620	50	5
		25	1260		7.5	1550		6.25
		32	1180		9.6	1500		8
		40	1170		12	1450		10
		50	1120		15	1410		12.5
		69	1100		18.9	1380		15.75

D1	d2	L	Sarı (80 Shore)			Kırmızı (90 Shore)		
			P	D	F	P	D	F
50	17	25	1980	65	7.5	2500	62	6.25
		32	1910		9.6	2400		8
		40	1850		12	2300		10
		50	1810		15	2250		12.5
		63	1760		18.9	2200		15.75
		80	1730		24	2150		20
63	17	32	3400	82	9.6	4200	78	9
		40	3200		12	4050		10
		50	3100		15	3900		12.5
		63	3000		18.9	3800		15.75
		80	2900		24	3700		20
		100	2800		30	3600		25
80	21	40	5500	104	12	6900	99	10
		50	5250		15	6600		12.5
		63	5050		18.9	6400		15.75
		80	4900		24	6200		20
		100	4750		30	6000		25
		125	4650		37.5	5800		31.25
100	21	50	9000	130	15	1300	125	12.5
		63	8600		18.9	10800		15.75
		80	8250		24	10400		20
		100	8000		30	10000		25
		125	7600		37.5	9700		31.25
		160	7500		48	9500		40
125	27	63	14200	160	18.9	17600	156	15.75
		80	13200		24	16800		20
		100	12800		30	16000		25
		125	12400		37.5	15300		31.25
		160	12000		48	15000		40

Sip. No	D1	d2	L
000488	16	-	310
000489	20	-	
000490	20	8.5	
000491	25	-	
000492	25	10.5	
000493	32	-	
000494	32	13.5	
000495	40	-	
000496	40	13.5	

Sip. No	D1	d2	L
000497	50	-	310
000498	50	17	
000499	63	-	
000500	63	17	
000501	80	-	
000502	80	21	
000503	100	-	
000504	100	21	
000505	125	-	
000506	125	27	



Ö01

+

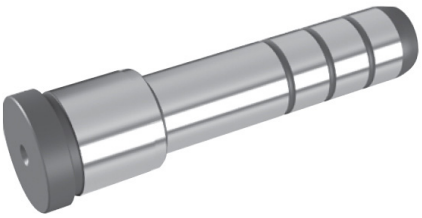


Ö20

+



Ö22



Ö02

+

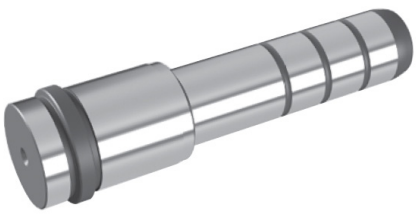


Ö20

+



Ö30.05



Ö03

+



Ö21

+



Ö40



Ö08

+

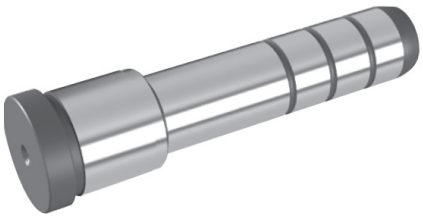


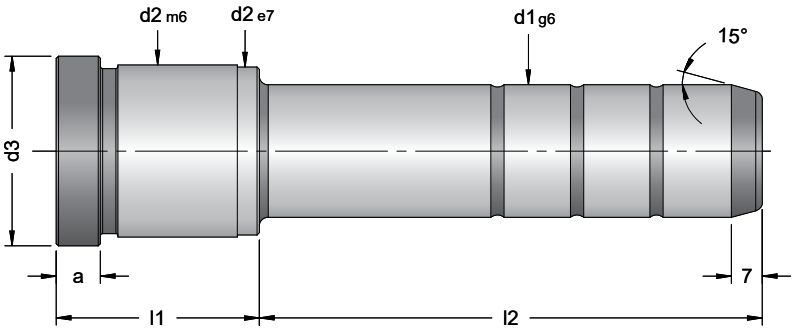
Ö22B

+



Ö75



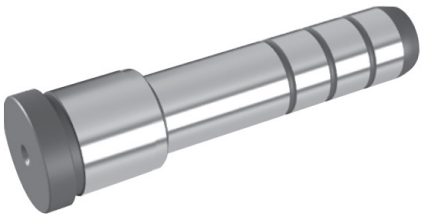


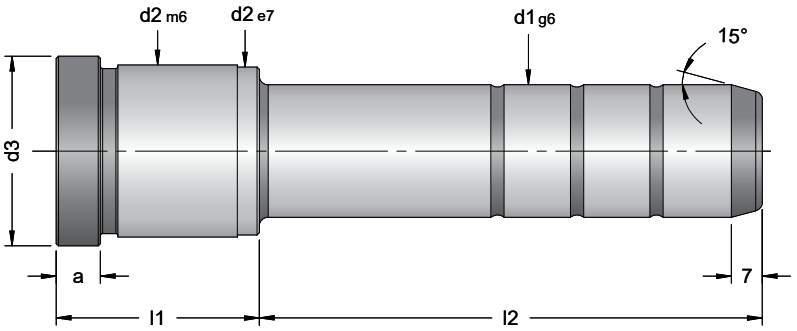
Ö02–Şapkalı Kademeli Kolon ŞKK

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

Sipariş Örneği : d1 x L1 x L2

Sip. No	d1	L1	L2	d2	d3	a
000507	12	26	26	16	19	4
000508			36			
000509			46			
000510			56			
000511	12	36	26	16	19	4
000512			36			
000513			46			
000514			56			
000515	12	46	26	16	19	4
000516			36			
000517			46			
000518			56			
000519			66			
000520	14	26	26	20	25	6
000521			36			
000522			46			
000523			56			
000524			66			
000525			76			
000526	14	36	26	20	25	6
000527			36			
000528			46			
000529			56			
000530			66			
000531			86			
000532	14	46	26	20	25	6
000533			36			
000534			46			
000535			56			
000536			76			
000537			96			
000538	14	56	26	20	25	6
000539			36			
000540			46			
000541			66			
000542			86			
000543			106			
000544	16	26	26	24	28	6
000545			36			
000546			46			
000547			56			
000548			76			
000549			96			
000550	16	36	26	24	28	6
000551			36			
000552			46			
000553			56			
000554			66			
000555			86			
000556			106			
000557	16	46	26	24	28	6
000558			36			
000559	16	46	46	24	28	6
000560			56			
000561			66			
000562			76			
000563			96			
000564			116			
000565	16	56	26	24	28	6
000566			36			
000567			46			
000568			56			
000569			66			
000570			76			
000571			96			
000572			116			
000573	16	66	26	24	28	6
000574			36			
000575			46			
000576			56			
000577			66			
000578			76			
000579			86			
000580			106			
000581			116			
000582	16	76	26	24	28	6
000583			36			
000584			46			
000585			56			
000586			66			
000587			76			
000588			96			
000589			116			
000590	16	86	26	24	28	6
000591			36			
000592			46			
000593			56			
000594			66			
000595			76			
000596			96			
000597			116			
000598	18	26	26	26	31	6
000599			36			
000600			46			
000601			56			
000602			66			
000603			86			
000604	18	36	26	26	31	6
000605			36			
000606			46			
000607			56			
000608			66			
000609			86			
000610			106			
000611	18	46	26	26	31	6
000612			36			
000613			46			
000614			56			
000615			66			
000616			86			
000617			106			
000618			126			
000619	18	56	26	26	31	6
000620			36			
000621			46			
000622			56			
000623			66			
000624			86			
000625			106			
000626			126			
000627	18	66	26	26	31	6
000628			36			
000629			56			
000630			76			
000631			96			
000632			116			
000633	18	76	26	26	31	6
000634			46			
000635			66			
000636			86			
000637			106			
000638			126			
000639	18	86	26	26	31	6
000640			46			
000641			66			
000642			86			
000643			106			
000644			126			
000645	20	26	26	28	32	6
000646			36			
000647			46			
000648			56			
000649			66			
000650			86			
000651	20	36	26	28	32	6
000652			36			
000653			46			
000654			56			
000655			66			
000656			76			
000657			96			
000658	20	46	26	28	32	6
000659			36			
000660			46			
000661			56			
000662			66			
000663	20	46	76	28	32	6
000664			86			
000665			106			
000666	20	56	26	28	32	6
000667			36			
000668			46			
000669			56			
000670			66			
000671			76			
000672			96			
000673			116			
000674	20	66	26	28	32	6
000675			36			
000676			46			
000677			56			
000678			66			
000679			76			
000680			96			
000681			116			
000682	20	76	26	28	32	6
000683			36			
000684			46			
000685			56			
000686			66			
000687			76			
000688			86			
000689			106			
000690			126			
000691	20	86	26	28	32	6
000692			36			
000693			46			
000694			56			
000695			66			
000696			76			
000697			86			
000698			106			
000699			126			
000700	20	96	26	28	32	6
000701			36			
000702			46			
000703			56			
000704			66			
000705			76			
000706			86			
000707			106			
000708			126			
000709	25	26	26	34	38	8
000710			36			
000711			46			
000712			56			
000713			66			
000714			76			





Ö02–Şapkalı Kademeli Kolon ŞKK

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

Sip. No	d1	L1	L2	d2	d3	a
000715	25	26	96	34	38	8
000716			26			
000717			36			
000718			46			
000719	25	36	56	34	38	8
000720			66			
000721			76			
000722			86			
000723			106			
000724			26			
000725			36			
000726			46			
000727	25	46	56	34	38	8
000728			66			
000729			76			
000730			96			
000731			116			
000732			26			
000733			36			
000734			46			
000735	25	56	56	34	38	8
000736			66			
000737			76			
000738			96			
000739			116			
000740			26			
000741			36			
000742			46			
000743			56			
000744	25	66	66	34	38	8
000745			76			
000746			86			
000747			106			
000748			126			
000749			26			
000750			36			
000751			46			
000752			56			
000753	25	76	66	34	38	8
000754			76			
000755			86			
000756			106			
000757			126			
000758			36			
000759			46			
000760			56			
000761			66			
000762	25	86	76	34	38	8
000763			86			
000764			96			
000765			116			
000766			136			

Sip. No	d1	L1	L2	d2	d3	a
000767			36			
000768			46			
000769			56			
000770			66			
000771	25	96	76	34	38	8
000772			86			
000773			96			
000774			116			
000775			136			
000776			46			
000777			56			
000778			66			
000779	25	106	76	34	38	8
000780			86			
000781			96			
000782			116			
000783			136			
000784			36			
000785			46			
000786	30	36	56	39	43	10
000787			66			
000788			86			
000789			106			
000790			36			
000791			46			
000792			56			
000793	30	46	66	39	43	10
000794			76			
000795			96			
000796			116			
000797			36			
000798			46			
000799			56			
000800	30	56	66	39	43	10
000801			76			
000802			86			
000803			106			
000804			126			
000805			36			
000806			46			
000807			56			
000808			66			
000809	30	66	76	39	43	10
000810			86			
000811			96			
000812			116			
000813			136			
000814			36			
000815			46			
000816	30	76	56	39	43	10
000817			76			
000818			96			

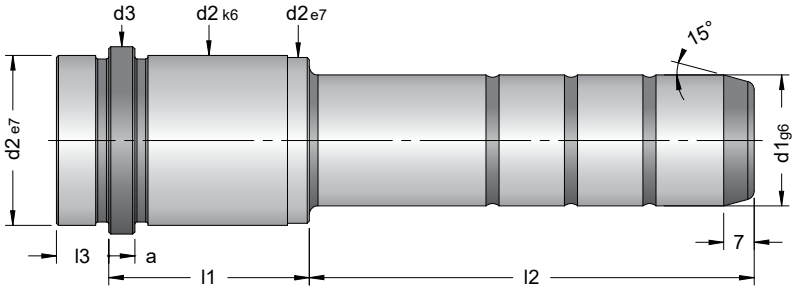
Sip. No	d1	L1	L2	d2	d3	a
000819	30	76	116	39	43	10
000820			136			
000821			36			
000822			46			
000823			66			
000824	30	86	86	39	43	10
000825			106			
000826			126			
000827			146			
000828			46			
000829			66			
000830	30	96	86	39	43	10
000831			106			
000832			126			
000833			146			
000834			56			
000835			76			
000836	30	106	96	39	43	10
000837			116			
000838			136			
000839			56			
000840			76			
000841	30	116	96	39	43	10
000842			116			
000843			136			
000844			56			
000845			86			
000846	40	56	106	54	58	10
000847			126			
000848			156			
000849			186			
000850			66			
000851			96			
000852	40	66	116	54	58	10
000853			136			
000854			166			
000855			196			
000856			76			
000857			106			
000858			126			
000859	40	76	146	54	58	10
000860			166			
000861			196			
000862			216			
000863			86			
000864			126			
000865	40	86	146	54	58	10
000866			176			
000867			206			
000868			226			
000869	40	96	96	54	58	10
000870			136			

Sipariş Örneği : d1 x L1 x L2

Sip. No	d1	L1	L2	d2	d3	a
000871	40	96	156	54	58	10
000872			186			
000873			216			
000874			236			
000875	40	106	106	54	58	10
000876			126			
000877			156			
000878			186			
000879			226			
000880			246			
000881	40	116	116	54	58	10
000882			136			
000883			166			
000884			196			
000885			236			
000886			256			
000887	40	126	126	54	58	10
000888			166			
000889			196			
000890			236			
000891			266			
000892	40	136	136	54	58	10
000893			196			
000894			226			
000895			266			



KŞKK



Ö03–Yerli Kuyruklu Şapkalı Kademeli Kolon

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : Islah + İndüksiyon

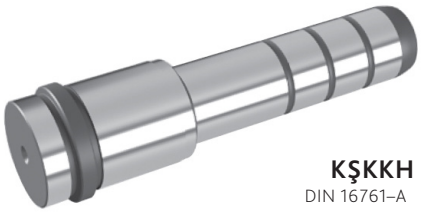
Sipariş Örneği : d1 x L1 x L2

Sip. No	d1	L1	L2	d2	d3	a	L3
000896	16	26	26	24	28	6	10
000897			36				
000898			46				
000899			56				
000900			66				
000901			76				
000902			96				
000903	16	36	26	24	28	6	10
000904			36				
000905			46				
000906			56				
000907			66				
000908			86				
000909	16	46	26	24	28	6	10
000910			36				
000911			46				
000912			56				
000913			66				
000914			76				
000915			96				
000916			116				
000917	16	56	36	24	28	6	10
000918			46				
000919			66				
000920			86				
000921			106				
000922			126				
000923			146				
000924	16	66	36	24	28	6	10
000925			56				
000926			76				
000927			96				
000928	16	76	116	24	28	6	10
000929			136				
000930			46				
000931			66				
000932			86				
000933			106				
000934			126				
000935	16	86	46	24	28	6	10
000936			66				
000937			86				
000938			106				
000939			126				
000940	20	26	26	28	32	6	10
000941			36				
000942			46				
000943			56				
000944			66				
000945			76				
000946			96				

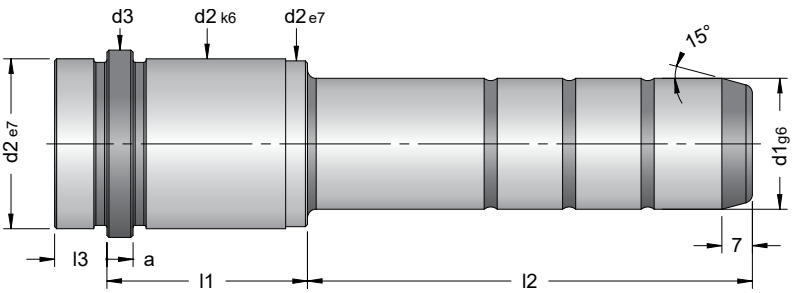
Sip. No	d1	L1	L2	d2	d3	a	L3
000947	20	36	26	28	32	6	10
000948			36				
000949			46				
000950			56				
000951			66				
000952			86				
000953			106				
000954			126				
000955	20	46	26	28	32	6	10
000956			36				
000957			46				
000958			56				
000959			76				
000960			96				
000961			116				
000962	20	56	26	28	32	6	10
000963			36				
000964			46				
000965			66				
000966			86				
000967			106				
000968			126				
000969	20	66	36	28	32	6	10
000970			56				
000971			76				
000972			96				
000973			116				
000974			136				
000975	20	76	46	28	32	6	10
000976			66				
000977			86				
000978			106				
000979			126				
000980	20	86	56	28	32	6	10
000981			76				
000982			96				
000983			116				
000984	20	96	46	28	32	6	10
000985			66				
000986			86				
000987			106				
000988			126				
000989	25	26	56	34	38	8	10
000990			66				
000991			76				
000992	25	36	36	34	38	8	10
000993			46				
000994			56				
000995			66				
000996			86				
000997			106				

Sip. No	d1	L1	L2	d2	d3	a	L3
000998	25	36	126	34	38	8	10
000999			146				
001000	25	46	36	34	38	8	10
001001			46				
001002			56				
001003			76				
001004			96				
001005			116				
001006			136				
001007	25	56	36	34	38	8	10
001008			46				
001009			66				
001010			86				
001011			106				
001012			126				
001013			146				
001014	25	66	36	34	38	8	10
001015			56				
001016			76				
001017			96				
001018			116				
001019			136				
001020	25	76	46	34	38	8	10
001021			66				
001022			86				
001023			106				
001024			126				
001025	25	86	56	34	38	8	10
001026			76				
001027			96				
001028			116				
001029			136				
001030	25	96	56	34	38	8	10
001031			76				
001032			96				
001033			116				
001034			136				
001035	25	106	66	34	38	8	10
001036			86				
001037			106				
001038			126				
001039	30	36	36	39	43	10	10
001040			46				
001041			56				
001042			66				
001043			86				
001044			106				
001045	30	46	36	39	43	10	10
001046			46				
001047			56				
001048			76				

Sip. No	d1	L1	L2	d2	d3	a	L3
001049	30	46	96	39	43	10	10
001050			116				
001051	30	56	36	39	43	10	10
001052			46				
001053			66				
001054			86				
001055			106				
001056			126				
001057	30	66	36	39	43	10	10
001058			56				
001059			76				
001060			96				
001061			116				
001062			136				
001063	30	76	46	39	43	10	10
001064			66				
001065			86				
001066			106				
001067			126				
001068	30	86	56	39	43	10	10
001069			76				
001070			96				
001071			116				
001072			136				
001073	30	96	46	39	43	10	10
001074			66				
001075			86				
001076			106				
001077			126				
001078	30	106	56	39	43	10	10
001079			66				
001080			86				
001081			106				
001082			126				
001083	30	116	66	39	43	10	10
001084			86				
001085			106				
001086			126				



KŞKKH
DIN 16761–A



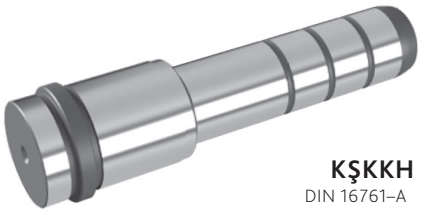
Ö03H–Kuyruklu Şapkalı Kademeli Kolon

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

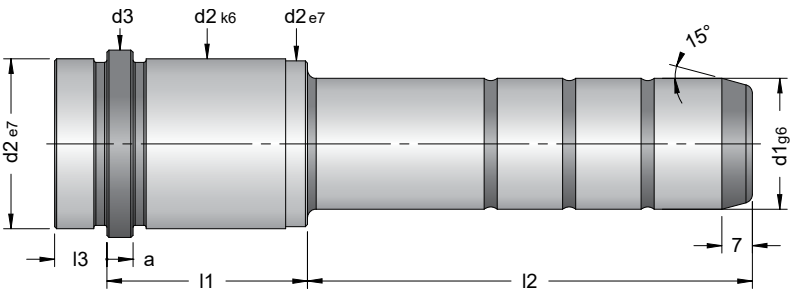
HASCO

Sipariş Örneği : d1 x L1 x L2

Sip. No	d1	L1	L2	L3	d2	d3	a
001087	14	17	35	9	20	25	6
001088			55				
001089			75				
001090			95				
001091	14	22	30	9	20	25	6
001092			50				
001093			70				
001094			90				
001095			110				
001096			125				
001097			150				
001098	14	27	30	9	20	25	6
001099			45				
001100			65				
001101			85				
001102			105				
001103			125				
001104			145				
001105			165				
001106	14	36	35	9	20	25	6
001107			55				
001108			75				
001109			95				
001110			115				
001111			125				
001112			145				
001113			155				
001114	14	46	35	9	20	25	6
001115			45				
001116			65				
001117			85				
001118			105				
001119			125				
001120			145				
001121	14	56	35	9	20	25	6
001122			55				
001123			75				
001124			95				
001125			135				
001126	14	66	55	9	20	25	6
001127			65				
001128			85				
001129			95				
001130			105				
001131			125				
001132	14	76	35	9	20	25	6
001133			55				
001134			75				
001135			95				
001136			125				
001137	14	86	55	9	20	25	6
001138			75				
001139			95				
001140	14	96	55	9	20	25	6
001141			75				
001142			95				
001143	14	116	75	9	20	25	6
001144	15	17	35	9	20	25	6
001145			55				
001146			75				
001147			95				
001148	15	22	30	9	20	25	6
001149			50				
001150			70				
001151			90				
001152			110				
001153			125				
001154			150				
001155	15	27	30	9	20	25	6
001156			45				
001157			65				
001158			85				
001159			105				
001160			125				
001161			145				
001162			165				
001163	15	36	35	9	20	25	6
001164			55				
001165			75				
001166			95				
001167			115				
001168			125				
001169			145				
001170			155				
001171	15	46	35	9	20	25	6
001172			45				
001173			65				
001174			85				
001175			105				
001176			125				
001177			145				
001178	15	56	35	9	20	25	6
001179			55				
001180			75				
001181			95				
001182			135				
001183	15	66	55	9	20	25	6
001184			65				
001185			85				
001186			95				
001187			105				
001188			125				
001189	15	76	35	9	20	25	6
001190			55				
001191			75				
001192			95				
001193			125				
001194	15	86	55	9	20	25	6
001195			75				
001196			95				
001197	15	96	55	9	20	25	6
001198			75				
001199			95				
001200	15	116	75	9	20	25	6
001201	18	17	35	9	26	31	6
001202			55				
001203			75				
001204			120				
001205	18	22	35	9	26	31	6
001206			45				
001207			65				
001208			85				
001209			95				
001210			115				
001211	18	27	35	9	26	31	6
001212			45				
001213			65				
001214			85				
001215			105				
001216			125				
001217			165				
001218			225				
001219			245				
001220	18	36	35	9	26	31	6
001221			55				
001222			75				
001223			95				
001224			115				
001225			135				
001226			165				
001227			225				
001228			255				
001229	18	46	35	9	26	31	6
001230			45				
001231			65				
001232			85				
001233			105				
001234			135				
001235			165				
001236			245				
001237	18	56	35	9	26	31	6
001238			55				
001239			75				
001240			95				
001241			115				
001242			135				
001243			155				
001244	18	66	35	9	26	31	6
001245			55				
001246			75				
001247	18	66	95	9	26	31	6
001248			115				
001249			135				
001250			145				
001251	18	76	35	9	26	31	6
001252			55				
001253			75				
001254			95				
001255			115				
001256			135				
001257	18	86	55	9	26	31	6
001258			75				
001259			95				
001260			125				
001261			135				
001262	18	96	55	9	26	31	6
001263			75				
001264			95				
001265	18	116	75	9	26	31	6
001266			115				
001267	18	136	135	9	26	31	6
001268	20	17	35	9	26	31	6
001269			55				
001270			75				
001271			120				
001272	20	22	35	9	26	31	6
001273			45				
001274			65				
001275			85				
001276			95				
001277			115				
001278	20	27	35	9	26	31	6
001279			45				
001280			65				
001281			85				
001282			105				
001283			125				
001284			165				
001285			225				
001286			245				
001287	20	36	35	9	26	31	6
001288			55				
001289			75				
001290			95				
001291			115				
001292			135				
001293			165				
001294			225				
001295			255				
001296	20	46	35	9	26	31	6
001297			45				
001298			65				
001299			85				
001300			105				



KŞKKH
DIN 16761–A



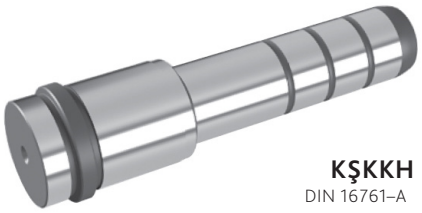
Ö03H–Kuyruklu Şapkalı Kademeli Kolon

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

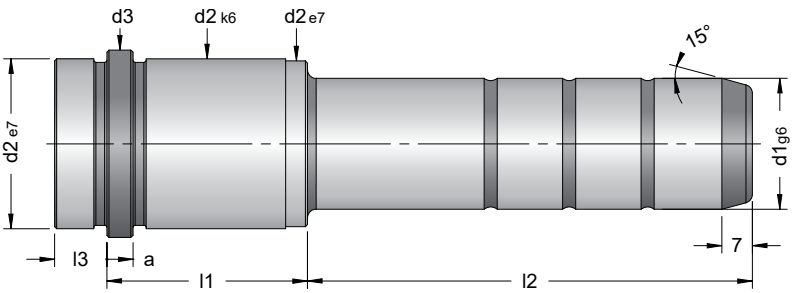
HASCO

Sipariş Örneği : d1 x L1 x L2

Sip. No	d1	L1	L2	L3	d2	d3	a
001301	20	46	135	9	26	31	6
001302			165				
001303			245				
001304	20	56	35	9	26	31	6
001305			55				
001306			75				
001307			95				
001308			115				
001309			135				
001310			155				
001311	20	66	35	9	26	31	6
001312			55				
001313			75				
001314			95				
001315			115				
001316			135				
001317			145				
001318	20	76	35	9	26	31	6
001319			55				
001320			75				
001321			95				
001322			115				
001323			135				
001324	20	86	55	9	26	31	6
001325			75				
001326			95				
001327			125				
001328			135				
001329	20	96	55	9	26	31	6
001330			75				
001331			95				
001332	20	116	75	9	26	31	6
001333			115				
001334	20	136	135	9	26	31	6
001335	22	17	35	9	30	35	6
001336			55				
001337			75				
001338	22	22	35	9	30	35	6
001339			55				
001340			75				
001341			95				
001342			105				
001343			130				
001344	22	27	35	9	30	35	6
001345			45				
001346			65				
001347			85				
001348			105				
001349			125				
001350			165				
001351			205				
001352			245				
001353	22	36	35	9	30	35	6
001354			55				
001355			75				
001356			95				
001357			115				
001358			135				
001359			165				
001360			205				
001361			245				
001362			285				
001363	22	46	35	9	30	35	6
001364			45				
001365			65				
001366			85				
001367			105				
001368			125				
001369			165				
001370			205				
001371	22	56	35	9	30	35	6
001372			55				
001373			75				
001374			95				
001375			115				
001376			135				
001377			165				
001378			205				
001379	22	66	35	9	30	35	6
001380			55				
001381			75				
001382			95				
001383			115				
001384			135				
001385			155				
001386	22	76	35	9	30	35	6
001387			55				
001388			75				
001389			95				
001390			115				
001391			145				
001392	22	86	55	9	30	35	6
001393			75				
001394			95				
001395			125				
001396			135				
001397	22	96	55	9	30	35	6
001398			75				
001399			95				
001400			125				
001401	22	106	55	9	30	35	6
001402			75				
001403			95				
001404			115				
001405	22	116	75	9	30	35	6
001406			115				
001407			155				
001408	22	136	95	9	30	35	6
001409			135				
001410	24	17	35	9	30	35	6
001411			55				
001412			75				
001413	24	22	35	9	30	35	6
001414			55				
001415			75				
001416			95				
001417			105				
001418			130				
001419	24	27	35	9	30	35	6
001420			45				
001421			65				
001422			85				
001423			105				
001424			125				
001425			165				
001426			205				
001427			245				
001428	24	36	35	9	30	35	6
001429			55				
001430			75				
001431			95				
001432			115				
001433			135				
001434			165				
001435			205				
001436			245				
001437			285				
001438	24	46	35	9	30	35	6
001439			45				
001440			65				
001441			85				
001442			105				
001443			125				
001444			165				
001445			205				
001446	24	56	35	9	30	35	6
001447			55				
001448			75				
001449			95				
001450			115				
001451			135				
001452			165				
001453			205				
001454	24	66	35	9	30	35	6
001455			55				
001456			75				
001457			95				
001458	24	66	115	9	30	35	6
001459			135				
001460			155				
001461	24	76	35	9	30	35	6
001462			55				
001463			75				
001464			95				
001465			115				
001466			145				
001467	24	86	55	9	30	35	6
001468			75				
001469			95				
001470			125				
001471			135				
001472	24	96	55	9	30	35	6
001473			75				
001474			95				
001475			125				
001476	24	106	55	9	30	35	6
001477			75				
001478			95				
001479			115				
001480	24	116	75	9	30	35	6
001481			115				
001482			155				
001483	24	136	95	9	30	35	6
001484			135				
001485	30	27	35	9	42	47	6
001486			45				
001487			65				
001488			85				
001489			105				
001490			125				
001491			145				
001492			165				
001493			185				
001494			245				
001495			285				
001496	30	36	35	9	42	47	6
001497			55				
001498			75				
001499			95				
001500			115				
001501			135				
001502			155				
001503			245				
001504			285				
001505	30	46	45	9	42	47	6
001506			65				
001507			85				
001508			105				
001509			125				
001510			145				
001511			165				



KŞKKH
DIN 16761–A



Ö03H–Kuyruklu Şapkalı Kademeli Kolon

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

HASCO

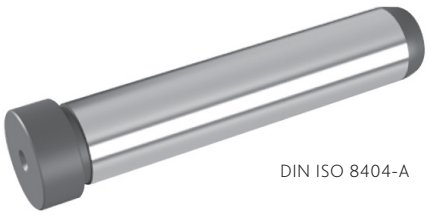
Sipariş Örneği : d1 x L1 x L2

Sip. No	d1	L1	L2	L3	d2	d3	a
001512	30	46	245	9	42	47	6
001513			285				
001514	30	56	45	9	42	47	6
001515			55				
001516			75				
001517			95				
001518			115				
001519			135				
001520			155				
001521			175				
001522			245				
001523			295				
001524	30	66	45	9	42	47	6
001525			55				
001526			75				
001527			95				
001528			115				
001529			135				
001530			155				
001531			175				
001532			245				
001533			295				
001534	30	76	55	9	42	47	6
001535			75				
001536			95				
001537			115				
001538			135				
001539			155				
001540			225				
001541	30	86	55	9	42	47	6
001542			75				
001543			95				
001544			115				
001545			135				
001546			155				
001547			225				
001548	30	96	55	9	42	47	6
001549			75				
001550			95				
001551			115				
001552			135				
001553			155				
001554			205				
001555	30	106	75	9	42	47	6
001556			95				
001557			115				
001558			125				
001559			145				
001560			165				
001561	30	116	75	9	42	47	6
001562			95				
001563			115				
001564			135				
001565			155				

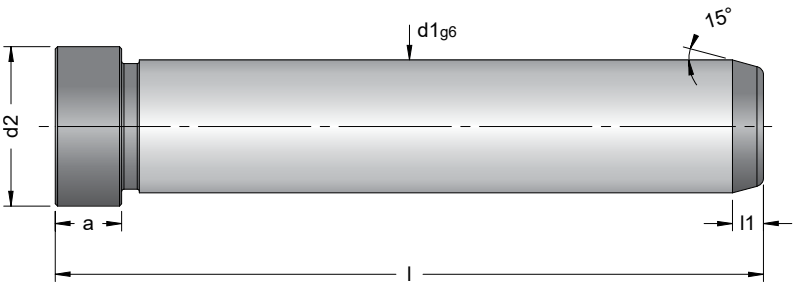
Sip. No	d1	L1	L2	L3	d2	d3	a
001566	30	136	95	9	42	47	6
001567			115				
001568			135				
001569			155				
001570	30	156	115	9	42	47	6
001571			155				
001572	30	196	155	9	42	47	6
001573			195				
001574	32	27	35	9	42	47	6
001575			45				
001576			65				
001577			85				
001578			105				
001579			125				
001580			145				
001581			165				
001582			185				
001583			245				
001584			285				
001585	32	36	35	9	42	47	6
001586			55				
001587			75				
001588			95				
001589			115				
001590			135				
001591			155				
001592			245				
001593			285				
001594	32	46	45	9	42	47	6
001595			65				
001596			85				
001597			105				
001598			125				
001599			145				
001600			165				
001601			245				
001602			285				
001603	32	56	45	9	42	47	6
001604			55				
001605			75				
001606			95				
001607			115				
001608			135				
001609			155				
001610			175				
001611			245				
001612			295				
001613	32	66	45	9	42	47	6
001614			55				
001615			75				
001616			95				
001617			115				
001618			135				
001619			155				

Sip. No	d1	L1	L2	L3	d2	d3	a
001620	32	66	175	9	42	47	6
001621			245				
001622			295				
001623	32	76	55	9	42	47	6
001624			75				
001625			95				
001626			115				
001627			135				
001628			155				
001629			225				
001630	32	86	55	9	42	47	6
001631			75				
001632			95				
001633			115				
001634			135				
001635			155				
001636			225				
001637	32	96	55	9	42	47	6
001638			75				
001639			95				
001640			115				
001641			135				
001642			155				
001643			205				
001644	32	106	75	9	42	47	6
001645			95				
001646			115				
001647			125				
001648			145				
001649			165				
001650	32	116	75	9	42	47	6
001651			95				
001652			115				
001653			135				
001654			155				
001655	32	136	95	9	42	47	6
001656			115				
001657			135				
001658			155				
001659	32	156	115	9	42	47	6
001660			155				
001661	32	196	155	9	42	47	6
001662			195				
001663	40	46	95	12	54	60	10
001664			165				
001665	40	56	75	12	54	60	10
001666			115				
001667			155				
001668			195				
001669	40	66	75	12	54	60	10
001670			135				
001671	40	76	75	12	54	60	10
001672			115				
001673			175				

Sip. No	d1	L1	L2	L3	d2	d3	a
001674	40	86	75	12	54	60	10
001675			135				
001676	40	96	75	12	54	60	10
001677			115				
001678			155				
001679	40	116	95	12	54	60	10
001680			135				
001681			195				
001682	40	136	95	12	54	60	10
001683			135				
001684			215				
001685	40	156	115	12	54	60	10
001686			155				
001687			215				
001688	40	196	155	12	54	60	10
001689			195				
001690			235				
001691	40	246	165	12	54	60	10
001692			245				
001693	42	46	95	12	54	60	10
001694			165				
001695	42	56	75	12	54	60	10
001696			115				
001697			155				
001698			195				
001699	42	66	75	12	54	60	10
001700			135				
001701	42	76	75	12	54	60	10
001702			115				
001703			175				
001704	42	86	75	12	54	60	10
001705			135				
001706	42	96	75	12	54	60	10
001707			115				
001708			155				
001709	42	116	95	12	54	60	10
001710			135				
001711			195				
001712	42	136	95	12	54	60	10
001713			135				
001714			215				
001715	42	156	115	12	54	60	10
001716			155				
001717			215				
001718	42	196	155	12	54	60	10
001719			195				
001720			235				
001721	42	246	165	12	54	60	10
001722			245				



DIN ISO 8404-A



Ö01D–Yağ Kanalsız Kolon

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

Sipariş Örneği : d1 x L

Sip. No	d1	L	L1	d2	a
001723	10	40	4	12	3
001724		60			
001725		80			
001726		100			
001727		120			
001728	12	40	4	16	6
001729		60			
001730		80			
001731		100			
001732		120			
001733		140			
001734		160			
001735	14	60	7	18	8
001736		80			
001737		100			
001738		120			
001739		140			
001740		160			
001741		180			
001742	16	40	7	20	8
001743		60			
001744		80			
001745		100			

Sip. No	d1	L	L1	d2	a
001746	16	120	7	20	8
001747		140			
001748		160			
001749		180			
001750		200			
001751	18	60	7	22	8
001752		80			
001753		100			
001754		120			
001755		140			
001756		160			
001757		180			
001758		200			
001759		240			
001760	20	60	7	24	8
001761		80			
001762		100			
001763		120			
001764		140			
001765		160			
001766		180			
001767		200			
001768		240			

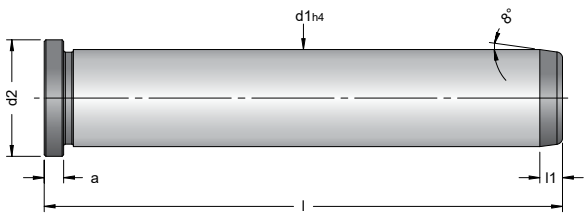
Sip. No	d1	L	L1	d2	a
001769	22	80	7	26	15
001770		100			
001771		120			
001772		140			
001773		160			
001774		180			
001775		200			
001776		220			
001777		240			
001778		300			
001779	24	80	7	28	15
001780		100			
001781		120			
001782		140			
001783		160			
001784		180			
001785		200			
001786		220			
001787		240			
001788		300			
001789	30	100	7	36	15
001790		120			
001791		140			

Sip. No	d1	L	L1	d2	a
001792	30	160	7	36	15
001793		180			
001794		200			
001795		220			
001796		240			
001797		300			
001798		360			
001799	40	160	10	48	15
001800		180			
001801		200			
001802		220			
001803		240			
001804		280			
001805		300			
001806		320			
001807		360			
001808	50	160	10	58	15
001809		200			
001810		240			
001811		300			
001812		360			



Ö08–Bilyalı Kolon

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon



Sipariş Örneği : d1 x L

Sip. No	d1	L	L1	d2	a
001813	12	80	4	16	v4
001814		100			
001815		120			

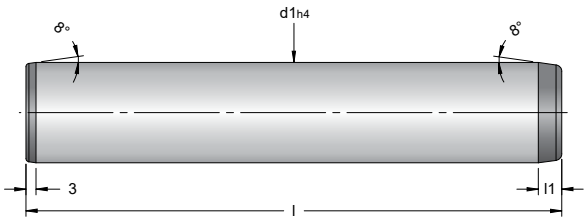
Sip. No	d1	L	L1	d2	a
001816	18	120	7	22	6
001817		140			
001818		160			

Sip. No	d1	L	L1	d2	a
001819	30	160	7	36	6
001820		200			
001821		240			



Ö09–Bilyalı Kolon

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

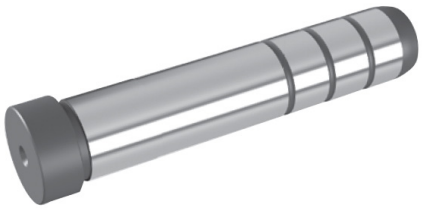


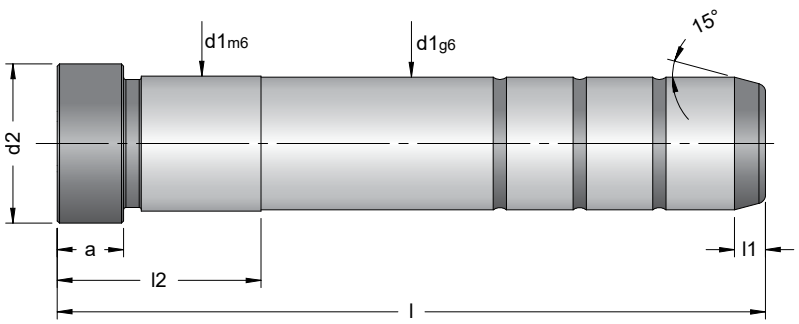
Sipariş Örneği : d1 x L

Sip. No	d1	L	L1
001822	12	100	6
001823		125	

Sip. No	d1	L	L1
001824	18	125	6
001825		160	

Sip. No	d1	L	L1
001826	30	160	7
001827		240	





Ö01–Yerli Şapkalı Kolon ŞK

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : Islah + İndüksiyon

Sipariş Örneği : d1 x L

Sip. No	d1	L	L1	d2	a
001828	12	60	7	16	10
001829		80			
001830		100			
001831		120			
001832		140			
001833		160			
001834	14	60	7	18	10
001835		80			
001836		100			
001837		120			
001838		140			
001839		160			
001840		180			
001841	16	60	7	20	10
001842		80			
001843		100			
001844		120			
001845		140			
001846		160			
001847		180			
001848		200			
001849		220			
001850		250			
001851	18	60	7	22	10
001852		80			

Sip. No	d1	L	L1	d2	a
001853	18	100	7	22	10
001854		120			
001855		140			
001856		160			
001857		180			
001858		200			
001859		240			
001860	20	60	7	24	10
001861		80			
001862		100			
001863		120			
001864		140			
001865		160			
001866		180			
001867		200			
001868		220			
001869		250			
001870		280			
001871		300			
001872		315			
001873		350			
001874	25	100	7	29	10
001875		120			
001876		140			
001877		160			

Sip. No	d1	L	L1	d2	a
001878	25	180	7	29	10
001879		200			
001880		220			
001881		250			
001882		300			
001883		350			
001884	30	100	7	34	12
001885		120			
001886		140			
001887		160			
001888		180			
001889		200			
001890		220			
001891		250			
001892		300			
001893		350			
001894	40	160	12	48	15
001895		180			
001896		200			
001897		220			
001898		240			
001899		280			
001900		300			
001901		320			
001902		360			



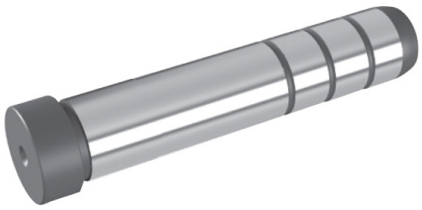
AL-F–Çok Yönlü Yağlayıcı

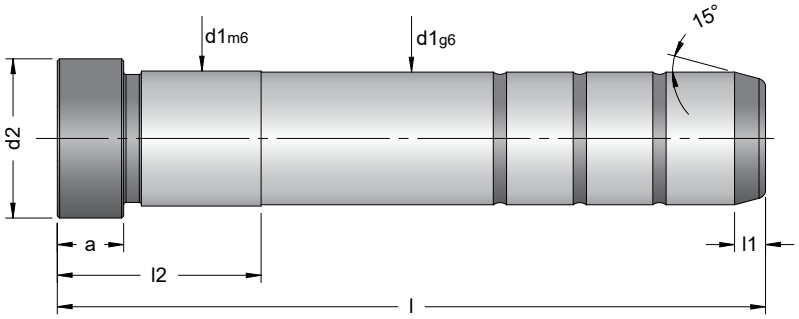
WEICON ALF rulmanlı ve sürgülü yataklar, birleşme yerleri, kumanda kolları, kayıcı kılavuzlar, dingiller, frezeli miller ve gres yağı için verilen tüm kayma hızlarında uygundur.AL-F başka pek çok endüstriyel alanda kullanılabilmektedir.



Kısaltma (DIN 5152) : KLF 2K -30
Kıvam tespiti (DIN 51818) : NLGI-Sınıf 2
Temel : Lithium-Sabun/mineralyağı
Renk : Beyaz
O +20°C'de (+68°F) yoğunluk DIN 51759 : 0,9 g/cm³
VKA-Test (DIN 51350) kaynak yükü : 3,600 N
VKA-Test (DIN 51350) mal yükü : 3.400 N
VKA-Test (DIN 51350) Dairesel kapak değeri (1 Min/1000) : 0,8 mm
Hız belirleme değeri : 350.000
İşlenmiş penetrasyon (DIN ISO 2137) : 280 ± 15 1/10 mm
Su dayanımı (DIN 5187) : 1–90
Özel ısı transfer kapasitesi (20 ° C) : 1,832 J/(g·K)
Isı iletkenliği (20 ° C) : 0,317 mm²/s
Isı iletkenliği (ISO 22007-4) (20 ° C) : 0,524 W/m·K
Dielektrik dayanımı (DIN EN 60243-1) (20 ° C) : 7,8 kV/mm
Damlama noktası (IP 396) : > 190 °C arası
Kinematik viskozite (+40°C DIN 51562) : 100 mm²/s
Kinematik viskozite (+100°C DIN 51562) : 9 mm²/s
EMCOR-korozyon testi (DIN 51 82) : 0 / 0

ŞAPKALI KOLON (HASCO)





Ö01H–Şapkalı Kolon

ŞKH

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

HASCO

Sipariş Örneği : d1 x L

Sip. No	d1	L	L1	L2	d2	a
001903	10	40	4	17	12	3
001904		60				
001905		80		22		
001906		100		27		
001907		120				
001908	12	40	4	17	16	6
001909		60		22		
001910		80		27		
001911		100				
001912		120		36		
001913		140				
001914		160				
001915	14	60	7	17	18	8
001916		80		22		
001917		100		27		
001918		120		36		
001919		140				
001920		160				
001921		180		46		
001922	16	40	7	22	20	8
001923		60		27		
001924		80				
001925		100		36		
001926		120				
001927		140				
001928		160		46	20	8
001929		180				
001930		200		56		
001931	18	60	7	27	22	8
001932		80				
001933		100		36		
001934		120				
001935		140				

Sip. No	d1	L	L1	L2	d2	a
001936	18	160	7	46	22	8
001937		180				
001938		200		56		
001939		240				
001940	20	60	7	27	24	8
001941		80				
001942		100		36		
001943		120				
001944		140				
001945		160		46		
001946		180				
001947		200		56		
001948		240		76		
001949	22	80	7	36	26	15
001950		100				
001951		120				
001952		140				
001953		160		46		
001954		180		56		
001955		200				
001956		220				
001957		240		66		
001958		300				
001959	24	80	7	36	28	15
001960		100				
001961		120				
001962		140				
001963		160		46		
001964		180		56		
001965		200				
001966		220				
001967		240		66		
001968		300				

Sip. No	d1	L	L1	L2	d2	a
001969	25	100	7	35	29	10
001970		120				
001971		140				
001972		160				
001973		180				
001974		200				
001975		220				
001976		250				
001977	30	100	7	36	36	15
001978		120				
001979		140				
001980		160		46		
001981		180		56		
001982		200		66		
001983		220				
001984		240				
001985		300		76		
001986		360				
001987	40	160	10	46	48	15
001988		180		56		
001989		200		66		
001990		220				
001991		240				
001992		280				
001993		300		76		
001994		320				
001995		360				
001996	50	160	10	56	58	15
001997		200				
001998		240				
001999		300		66		
002000		360		76		

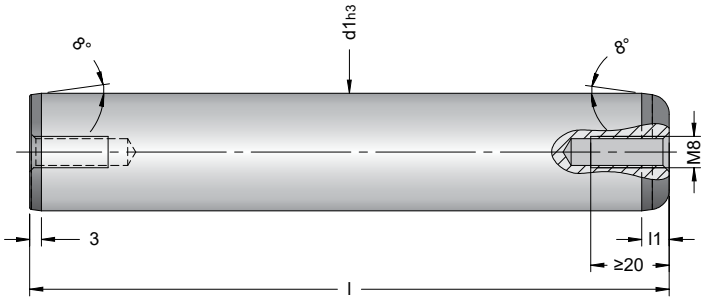


AL-F–Çok Yönlü Yağlayıcı

WEICON ALF rulmanlı ve sürgülü yataklar, birleşme yerleri, kumanda kolları, kayıcı kılavuzlar, dingiller, frezeli miller ve gres yağı için verilen tüm kayma hızlarında uygundur.AL-F başka pek çok endüstriyel alanda kullanılabilmektedir.







Ö14–Kılavuz Kolon

Malzeme : 1.1213 (Cf 53) ≈DIN 9825
Sertlik : 62 ± 2 HRC ≈ISO 9182-2
Isıl İşlem : İndüksiyon

Sipariş Örneği : d1 x L

Sipariş	d1	L	L1
002001	15	90	4
002002		100	
002003		112	
002004		125	
002005		140	
002006		160	
002007		180	
002008		200	
002009		224	
002010	16	90	4
002011		100	
002012		112	
002013		125	
002014		140	
002015		160	
002016		180	
002017		200	
002018		224	
002019	19	100	4
002020		112	
002021		125	
002022		140	
002023		160	

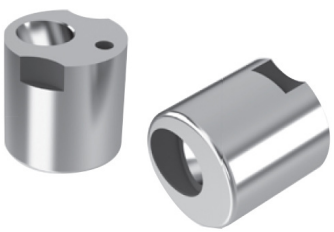
Sipariş	d1	L	L1
002024	19	180	4
002025		200	
002026		224	
002027		250	
002028	20	100	4
002029		112	
002030		125	
002031		140	
002032		160	
002033		180	
002034		200	
002035		224	
002036		250	
002037	24	100	6
002038		112	
002039		125	
002040		140	
002041		160	
002042		180	
002043		200	
002044		224	
002045		250	
002046		280	

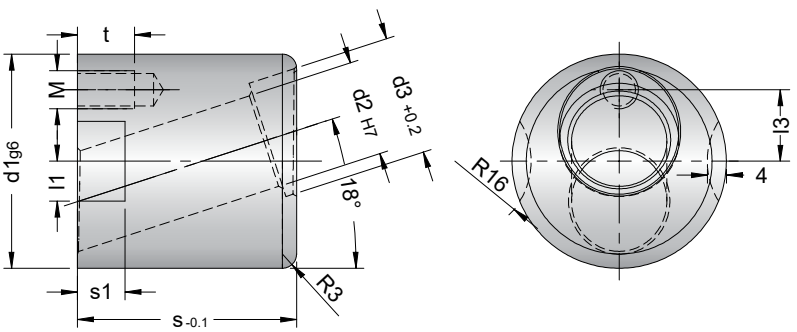
Sipariş	d1	L	L1
002047	25	100	6
002048		112	
002049		125	
002050		140	
002051		160	
002052		180	
002053		200	
002054		224	
002055		250	
002056		280	
002057	30	125	6
002058		140	
002059		160	
002060		180	
002061		200	
002062		224	
002063		250	
002064		280	
002065		315	
002066		125	
002067		140	
002068		160	
002069		180	

Sipariş	d1	L	L1
002070	32	200	6
002071		224	
002072		250	
002073		280	
002074		315	
002075	38	160	6
002076		180	
002077		200	
002078		224	
002079		250	
002080		280	
002081		315	
002082		355	
002083	40	400	6
002084		160	
002085		180	
002086		200	
002087		224	
002088		250	
002089		280	
002090		315	
002091		355	
002092		400	

Sipariş	d1	L	L1
002093	48	180	8
002094		200	
002095		224	
002096		250	
002097		280	
002098		315	
002099		355	
002100		400	
002101		450	
002102	50	180	8
002103		200	
002104		224	
002105		250	
002106		280	
002107		315	
002108		355	
002109		400	
002110		450	
002111	60	250	8
002112		280	
002113		315	
002114		355	
002115		400	

Sipariş	d1	L	L1
002116	60	450	8
002117		500	
002118	63	250	8
002119		280	
002120		315	
002121		355	
002122		400	
002123		450	
002124		500	
002125	80	280	8
002126		315	
002127		355	
002128		400	
002129		450	
002130		500	





Ö100–Boynuz Pim Yatağı

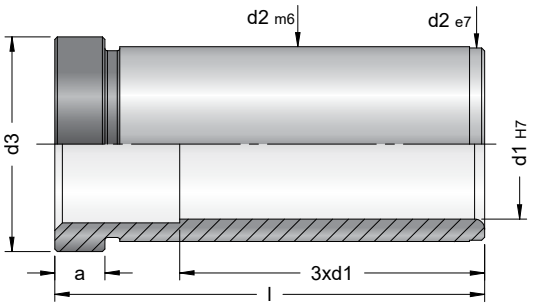
Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : Sementasyon

Sipariş Örneği : d2

Sip. No	d1	S	d2	d3	d5	L1	L3	T1	T2
002131	32	36	12	16	M6	7	10	10	12
002132	36	36	14	18	M8	7	12	10	16
002133	40	46	16	20	M8	8.5	13.5	10	16
002134	40	46	18	22	M8	8.5	13.5	10	16

Sip. No	d1	S	d2	d3	d5	L1	L3	T1	T2
002135	45	46	20	25	M8	8.5	15	10	16
002136	50	56	25	29	M8	10	16	12	16
002137	63	66	30	34	M10	12	21	15	20





Ö20–Şapkalı Burç ŞB

Malzeme : 1.7131 (16MnCr5)
Sertlik : 62 ± 2 HRC
Isıl İşlem : Sementasyon

Sipariş Örneği : d1 x L

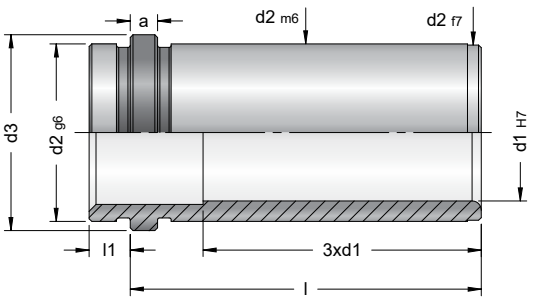
Sip. No	d1	L	d2	d3	a
002138	12	26	16	19	4
002139		36			
002140		46			
002141		56			
002142		66			
002143	14	26	20	25	6
002144		36			
002145		46			
002146		56			
002147		66			
002148		76			
002149	16	26	24	28	6
002150		36			
002151		46			
002152		56			
002153		66			

Sip. No	d1	L	d2	d3	a
002154	16	76	24	28	6
002155		86			
002156	18	26	26	31	6
002157		36			
002158		46			
002159		56			
002160		66			
002161		76			
002162		86			
002163	20	26	28	32	6
002164		36			
002165		46			
002166		56			
002167		66			
002168		76			
002169		86			

Sip. No	d1	L	d2	d3	a
002170	20	96	28	32	6
002171	25	26	34	38	8
002172		36			
002173		46			
002174		56			
002175		66			
002176		76			
002177		86			
002178		96			
002179		106			
002180	30	36	39	43	10
002181		46			
002182		56			
002183		66			
002184		76			
002185		86			

Sip. No	d1	L	d2	d3	a
002186	30	96	39	43	10
002187		106			
002188		116			
002189	40	46	54	58	10
002190		56			
002191		66			
002192		76			
002193		86			
002194		96			
002195		106			
002196		116			
002197		126			
002198		136			
002199		146			





Ö21–Yerli Kuyruklu Şapkalı Burç KŞB

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : Sementasyon

Sipariş Örneği : d1 x L

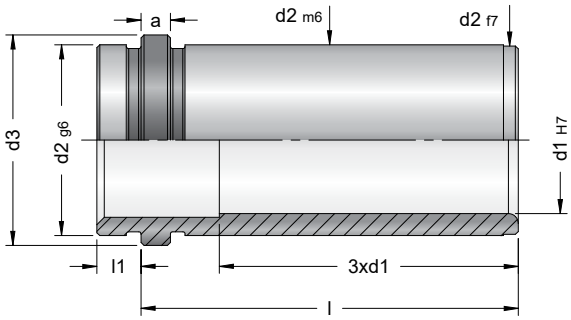
Sip. No	d1	L1	d2	d3	a	L2
002200	16	26	24	28	6	10
002201		36				
002202		46				
002203		56				
002204		66				
002205		76				
002206		86				
002207	20	26	28	32	6	10
002208		36				

Sip. No	d1	L1	d2	d3	a	L2
002209	20	46	28	32	6	10
002210		56				
002211		66				
002212		76				
002213		86				
002214		96				
002215	25	26	34	38	8	10
002216		36				
002217		46				

Sip. No	d1	L1	d2	d3	a	L2
002218	25	56	34	38	8	10
002219		66				
002220		76				
002221		86				
002222		96				
002223		106				
002224	30	36	39	43	10	10
002225		46				
002226		56				

Sip. No	d1	L1	d2	d3	a	L2
002227	30	66	39	43	10	10
002228		76				
002229		86				
002230		96				
002231		106				
002232		116				





Ö21H–Kuyruklu Şapkalı Burç KŞBH

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : Sementasyon

HASCO

Sipariş Örneği : d1 x L

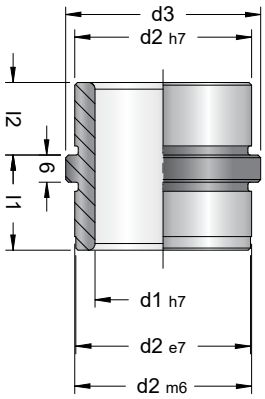
Sip. No	d1	L	d2	d3	a	L1
002233	14 15	17	20	25	6	9
002234		22				
002235		27				
002236		36				
002237		46				
002238		56				
002239		66				
002240		76				
002241		86				
002242		96				
002243		116				
002244	18 20	17	26	31	6	9
002245		22				
002246		27				
002247		36				
002248		46				

Sip. No	d1	L	d2	d3	a	L1
002249	18 20	56	26	31	6	9
002250		66				
002251		76				
002252		86				
002253		96				
002254		106				
002255		116				
002256		136				
002257	22 24	17	30	35	6	9
002258		22				
002259		27				
002260		36				
002261		46				
002262		56				
002263		66				
002264		76				

Sip. No	d1	L	d2	d3	a	L1
002265	22 24	86	30	35	6	9
002266		96				
002267		106				
002268		116				
002269		136				
002270		156				
002271	30 32	27	42	47	6	9
002272		36				
002273		46				
002274		56				
002275		66				
002276		76				
002277		86				
002278		96				
002279		106				
002280		116				

Sip. No	d1	L	d2	d3	a	L1
002281	30 32	126	42	47	6	9
002282		136				
002283		156				
002284		196				
002285	40 42	46	54	60	10	12
002286		56				
002287		66				
002288		76				
002289		86				
002290		96				
002291		116				
002292		136				
002293		156				
002294		196				
002295		246				





OFB

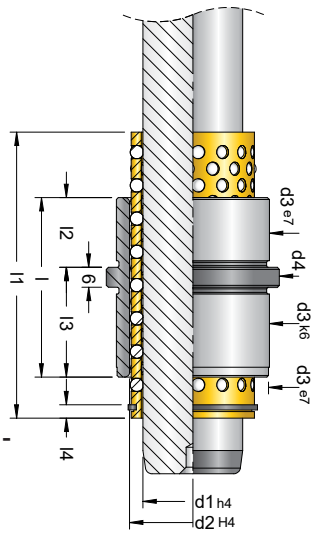
Ö22–Ortadan Flanşlı Burç

Malzeme : 1.7131 (16MnCr5)
Sertlik : 62 ± 2 HRC
Isıl İşlem : Sementasyon

Sipariş Örneği : d1

Sip. No	d1	L1	d2	d3	L2
002296	12	16	16	19	12
002297	14	16	20	25	12
002298	16	16	24	28	12
002299	18	16	26	31	12
002300	20	16	28	32	12
002301	24	21	34	38	16
002302	25	21	34	38	16
002303	30	21	39	43	16





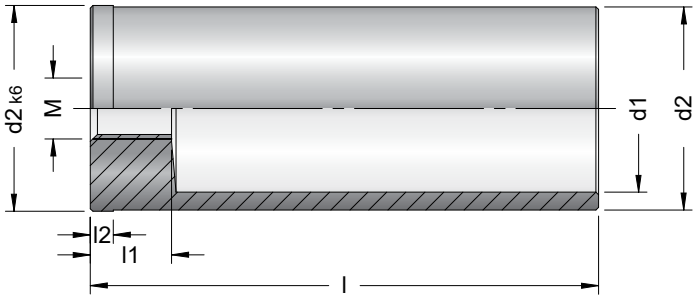
Ö22B–Bilyalı Ortadan Flanşlı Burç

Malzeme : 1.3505 (100Cr6)
Sertlik : 62 ± 2 HRC
Isıl İşlem : Sertleştirme

Sipariş Örneği : d1xL1

Sip. No	d1	L1	H Max.	L4	L	L2	d2	d3	d4	L3
002304	12	40	50	2.1	24	6	16	22	26	18
002305		56	82							
002306	18	45	44	3	34	11	24	30	35	23
002307		56	66							
002308		71	96							
002309	30	56	32	4.8	54	21	38	46	52	33
002310		75	70							
002311		95	110							





Ö40–Yerli Tespit Burcu TB

Malzeme : 1.7131 (16MnCr5)
Sertlik : 62 ± 2 HRC
Isıl İşlem : Sementasyon

Sipariş Örneği : d2 x L

Sip. No	d2	L	d1	M	L1	L2
002312	24	60	16	M8	15	5
002313		80				
002314		100				
002315		120				
002316		140				

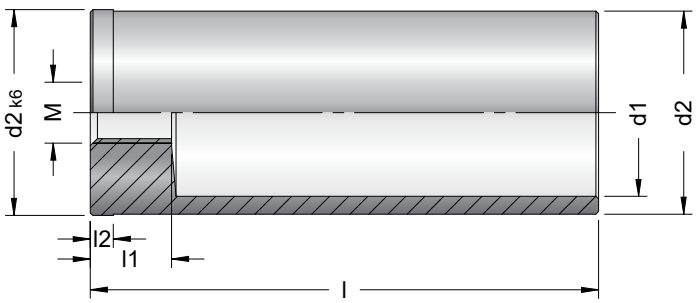
Sip. No	d2	L	d1	M	L1	L2
002317	28	60	20	M8	15	5
002318		80				
002319		100				
002320		120				
002321		140				

Sip. No	d2	L	d1	M	L1	L2
002322	34	80	25	M10	15	5
002323		100				
002324		120				
002325		140				
002326		160				

Sip. No	d2	L	d1	M	L1	L2
002327	39	80	30	M10	15	5
002328		100				
002329		120				
002330		140				
002331		160				



DIN 16759



Ö40H–Tespit Burcu TBH

HASCO

Malzeme : 1.7131 (16MnCr5)
Sertlik : 62 ± 2 HRC
Isıl İşlem : Sementasyon

Sipariş Örneği : d2 x L

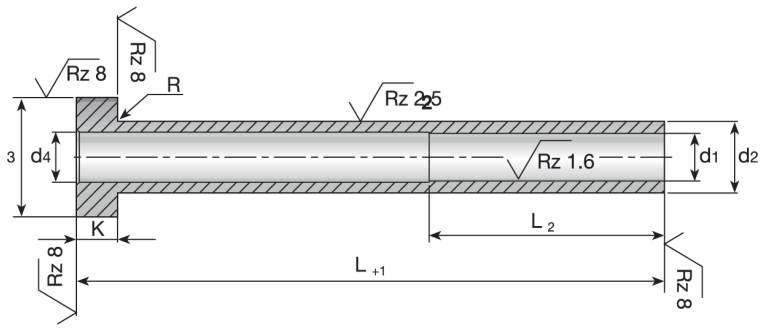
Sip. No	d2	L	d1	M	L1	L2	d2 Tole.
002332	20	30	16	12	10	2	g6
002333		40					
002334		60					
002335		80					
002336		100					
002337		120					
002338		140					
002339		160					
002340	26	30	21	12	13	2.5	g6
002341		40					
002342		60					
002343		80					

Sip. No	d2	L	d1	M	L1	L2	d2 Tole.
002344	26	100	21	12	13	2.5	g6
002345		120					
002346		140					
002347		160					
002348		180					
002349	30	40	25	12	13	2.5	g6
002350		60					
002351		80					
002352		100					
002353		120					
002354		140					
002355		160					

Sip. No	d2	L	d1	M	L1	L2	d2 Tole.
002356	30	180	25	12	13	2.5	g6
002357		200					
002358		240					
002359	42	40	33	12	16	4.5	g6
002360		60					
002361		80					
002362		100					
002363		120					
002364		140					
002365		160					
002366		180					
002367		200					

Sip. No	d2	L	d1	M	L1	L2	d2 Tole.
002368	42	220	33	12	16	4.5	g6
002369		260					
002370		300					
002371	54	60	43	12	16	4.5	f6
002372		80					
002373		120					
002374		160					
002375		200					
002376		240					
002377		280					





Plastik / Metal Enj. Boru İtici

Malzeme : Özel Alaşımlı Çelik 1.2344
Sertlik : 65+2–Kafa 45+5 HRC
Isıl İşlem : Sertleştirilmiş, Taşlanmış

Sipariş Örneği : d1 x d2 x L

Sip. No	d1	d2	L	d4	d3	K	R	L2
002378	2	4	75	2.4	8	3	0.3	35
002379			100					
002380			125					
002381			150					
002382			160					
002383			175					
002384			200					
002385			225					
002386			250					
002387			275					
002388			300					
002389	2.5	5	75	2.9	10	3	0.3	35
002390			100					
002391			125					
002392			150					
002393			160					
002394			175					
002395			200					
002396			225					
002397			250					
002398			275					
002399			300					
002400	3	5	75	3.4	10	3	0.3	45
002401			100					
002402			125					
002403			150					
002404			160					
002405			175					
002406			200					
002407			225					
002408			250					
002409			275					
002410			300					
002411			500					

Sip. No	d1	d2	L	d4	d3	K	R	L2
002412	3.5	6	75	3.9	12	5	0.5	45
002413			100					
002414			125					
002415			150					
002416			160					
002417			175					
002418			200					
002419			225					
002420			250					
002421			275					
002422			300					
002423			500					
002424	3.5	7	75	0.5	12	5	0.5	45
002425			100					
002426			125					
002427			150					
002428			160					
002429			175					
002430			200					
002431			225					
002432			250					
002433			275					
002434			300					
002435			500					
002436	4	6	75	4.4	12	5	0.5	45
002437			100					
002438			125					
002439			150					
002440			160					
002441			175					
002442			200					
002443			225					
002444			250					
002445			275					
002446			300					
002447			500					

Sip. No	d1	d2	L	d4	d3	K	R	L2
002448	4.2	8	75	4.6	14	5	0.5	45
002449			100					
002450			125					
002451			150					
002452			160					
002453			175					
002454			200					
002455			225					
002456			250					
002457			275					
002458			300					
002459			500					
002460	5	8	75	5.4	14	5	0.5	45
002461			100					
002462			125					
002463			150					
002464			160					
002465			175					
002466			200					
002467			225					
002468			250					
002469			275					
002470			300					
002471			500					
002472	6	10	75	6.4	16	5	0.5	45
002473			100					
002474			125					
002475			150					
002476			160					
002477			175					
002478			200					
002479			225					
002480			250					
002481			275					
002482			300					
002483			500					

Sip. No	d1	d2	L	d4	d3	K	R	L2
002484	8	12	75	8.4	20	7	0.7	45
002485			100					
002486			125					
002487			150					
002488			160					
002489			175					
002490			200					
002491			225					
002492			250					
002493			275					
002494			300					
002495			500					
002496	10	14	75	10.4	22	7	0.7	45
002497			100					
002498			125					
002499			150					
002500			160					
002501			175					
002502			200					
002503			225					
002504			250					
002505			275					
002506			300					
002507			500					
002508	12	16	75	12.4	22	7	0.7	45
002509			100					
002510			125					
002511			150					
002512			160					
002513			175					
002514			200					
002515			225					
002516			250					
002517			275					
002518			300					
002519			500					

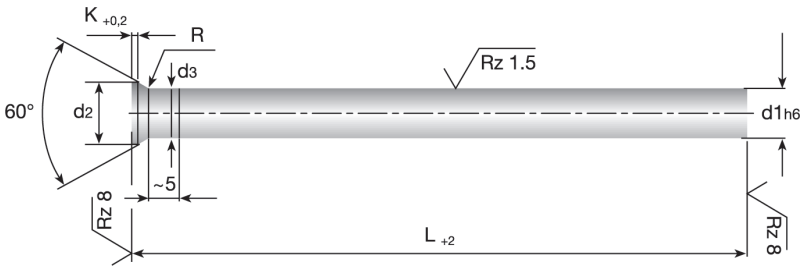


AL-F–Çok Yönlü Yağlayıcı

WEICON ALF rulmanlı ve sürgülü yataklar, birleşme yerleri, kumanda kolları, kayıcı kılavuzlar, dingiller, frezeli miller ve gres yağı için verilen tüm kayma hızlarında uygundur.AL-F başka pek çok endüstriyel alanda kullanılabilmektedir.







Havşa Başlı İtici HBİ

Malzeme : Çelik 1.2516
Sertlik : Gövde 60/62–Kafa 45 HRC
Isıl İşlem : Sertleştirilmiş, Taşlanmış

Sipariş Örneği : d x L

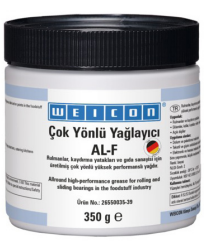
Sip. No	d1	d2	d3	K	L
002520	1	1.8	d1 +0.03	0.5	80
002521					100
002522					125
002523					160
002524					200
002525	1.5	2.2			80
002526					100
002527					125
002528					160
002529					200
002530					250
002531	2	3			80
002532					100
002533					125
002534					160
002535					200
002536					250
002537					315
002538	2.5	3.5			80
002539					100
002540					125
002541					160
002542					200
002543					250
002544					315
002545	3	4.5			80
002546					100
002547					125
002548					160
002549					200
002550					250
002551					315
002552	3.5	5			80
002553					100
002554					125

Sip. No	d1	d2	d3	K	L
002555	3.5	5	d1 +0.03	0.5	160
002556					200
002557					250
002558					315
002559	4	5.5			80
002560					100
002561					125
002562					160
002563					200
002564					250
002565					315
002566	4.5	6			80
002567					100
002568					125
002569					160
002570					200
002571					250
002572					315
002573	5	6.5			80
002574					100
002575					125
002576					160
002577					200
002578					250
002579					315
002580	5.5	7			80
002581					100
002582					125
002583					160
002584					200
002585					250
002586					315
002587	6	8			80
002588					100
002589					125

Sip. No	d1	d2	d3	K	L
002590	6	8	d1 +0.03	0.5	160
002591					200
002592					250
002593					315
002594	6.5	9		1	80
002595					100
002596					125
002597					160
002598					200
002599					250
002600					315
002601	7	9			80
002602					100
002603					125
002604					160
002605					200
002606					250
002607					315
002608	7.5	10			80
002609					100
002610					125
002611					160
002612					200
002613					250
002614					315
002615	8	10			80
002616					100
002617					125
002618					160
002619					200
002620					250
002621					315
002622	8.5	11			80
002623					100
002624					125

Sip. No	d1	d2	d3	K	L
002625	8.5	11	d1 +0.03	1	160
002626					200
002627					250
002628					315
002629	9	11			80
002630					100
002631					125
002632					160
002633					200
002634					250
002635					315
002636	9.5	12			80
002637					100
002638					125
002639					160
002640					200
002641					250
002642					315
002643	10	12			80
002644					100
002645					125
002646					160
002647					200
002648					250
002649					315
002650	10.5	13			80
002651					100
002652					125
002653					160
002654					200
002655					250
002656					315
002657	11	13			80
002658					100
002659					125

Sip. No	d1	d2	d3	K	L
002660	11	13	d1 +0.03	1.5	160
002661					200
002662					250
002663					315
002664	12	14			80
002665					100
002666					125
002667					160
002668					200
002669					250
002670					315
002671	13	15			80
002672					100
002673					125
002674					160
002675					200
002676					250
002677					315
002678	14	16			80
002679					100
002680					125
002681					160
002682					200
002683					250
002684					315
002685	16	18			80
002686					100
002687					125
002688					160
002689					200
002690					250
002691					315

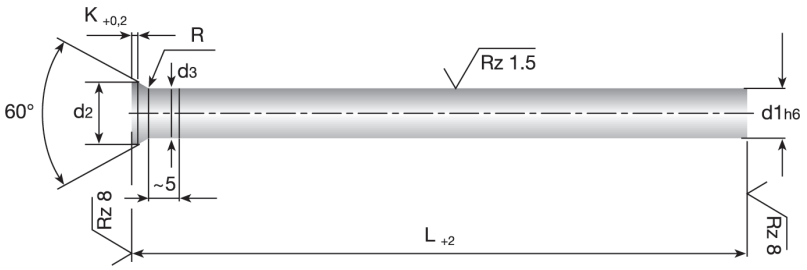


AL-F–Çok Yönlü Yağlayıcı

WEICON ALF rulmanlı ve sürgülü yataklar, birleşme yerleri, kumanda kolları, kayıcı kılavuzlar, dingiller, frezeli miller ve gres yağı için verilen tüm kayma hızlarında uygundur.AL-F başka pek çok endüstriyel alanda kullanılabilmektedir.







Havşa Başlı Ondalıklı İtici HBO

Malzeme : Çelik 1.2516
Sertlik : Gövde 60/62–Kafa 45 HRC
Isıl İşlem : Sertleştirilmiş, Taşlanmış

Sipariş Örneği : d1 x L

Sip. No	d1	d2	d3	K	L
002692	1.1	1.8	d1 +0.03	0.5	80
002693					100
002694					125
002695					160
002696					200
002697					250
002698	1.2	2			80
002699					100
002700					125
002701					160
002702					200
002703					250
002704	1.3	2	d1 +0.03	0.5	80
002705					100
002706					125
002707					160
002708					200
002709					250
002710	1.4	2.2			80
002711					100
002712					125
002713					160
002714					200
002715					250
002716	1.6	2.5	d1 +0.03	0.5	80
002717					100
002718					125
002719					160
002720					200
002721					250
002722	1.7	2.5			80
002723					100
002724					125
002725					160
002726					200
002727					250
002728	1.8	2.8	d1 +0.03	0.5	80
002729					100
002730					125
002731					160
002732					200
002733					250
002734	1.9	2.8			80
002735					100
002736					125
002737					160
002738					200
002739					250

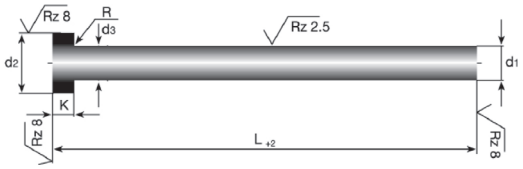
Sip. No	d1	4d2	d3	K	L
002740	2.1	3.2	d1 +0.03	0.5	80
002741					100
002742					125
002743					160
002744					200
002745					250
002746	2.2	3.2			80
002747					100
002748					125
002749					160
002750					200
002751					250
002752	2.3	3.5			80
002753					100
002754					125
002755					160
002756					200
002757					250
002758	2.4	3.5			80
002759					100
002760					125
002761					160
002762					200
002763					250
002764	2.6	4			80
002765					100
002766					125
002767					160
002768					200
002769					250
002770	2.7	4			80
002771					100
002772					125
002773					160
002774					200
002775	2.8	4			80
002776					100
002777					125
002778					160
002779					200
002780					250
002781	2.9				80
002782					100
002783					125
002784					160
002785					200
002786					250

Sip. No	d1	d2	d3	K	L
002787	3.1	4.5	d1 +0.03	0.5	80
002788					100
002789					125
002790					160
002791					200
002792					250
002793	3.2	4.5			80
002794					100
002795					125
002796					160
002797					200
002798					250
002799	3.3	4.5			80
002800					100
002801					125
002802					160
002803					200
002804					250
002805	3.4	4.5			80
002806					100
002807					125
002808					160
002809					200
002810	3.6	5			80
002811					100
002812					125
002813					160
002814					200
002815					250
002816	3.7	5			80
002817					100
002818					125
002819					160
002820					200
002821					250
002822	3.8	5			80
002823					100
002824					125
002825					160
002826					200
002827					250
002828	3.9	5			80
002829					100
002830					125
002831					160
002832					200
002833					250

Sip. No	d1	d2	d3	K	L
002834	4.1	5.5	d1 +0.03	0.5	80
002835					100
002836					125
002837					160
002838					200
002839					250
002840	4.2	5.5			80
002841					100
002842					125
002843					160
002844					200
002845					250
002846	4.3	5,5			80
002847					100
002848					125
002849					160
002850					200
002851					250
002852	4.4	5.5			80
002853					100
002854					125
002855					160
002856					200
002857					250
002858	4.6	6			80
002859					100
002860					125
002861					160
002862					200
002863					250
002864	4.7	6			80
002865					100
002866					125
002867					160
002868					200
002869					250
002870	4.8	6			80
002871					100
002872					125
002873					160
002874					200
002875					250
002876	4.9	6			80
002877					100
002878					125
002879					160
002880					200
002881					250

Sip. No	d1	d2	d3	K	L
002882	5.1	6,5	d1 +0.03	0.5	80
002883					100
002884					125
002885					160
002886					200
002887					250
002888	5.2	6.5			80
002889					100
002890					125
002891					160
002892					200
002893					250
002894	5.3	6.5			80
002895					100
002896					125
002897					160
002898					200
002899					250
002900	5.4	7			80
002901					100
002902					125
002903					160
002904					200
002905					250
002906	5.6	7			80
002907					100
002908					125
002909					160
002910					200
002911					250
002912	5.7	7			80
002913					100
002914					125
002915					160
002916					200
002917					250
002918	5.8	7			80
002919					100
002920					125
002921					160
002922					200
002923					250
002924	5.9	7			80
002925					100
002926					125
002927					160
002928					200
002929					250





Silindir Başlı İtici SBİ

Malzeme : Çelik 1.2516
Sertlik : 60+2–Kafa 45+5 HRC
Yüzey : Sertleştirilmiş, Taşlanmış

Sipariş Örneği : d1xL

Sip. No	d1	d2	K	R	d3	L
002930	1	2.5	1.2	0.2	d1 +0.03	100
002931						125
002932						160
002933						200
002934						250
002935	1.5	3	1.5	0.2		100
002936						125
002937						160
002938						200
002939						250
002940	2	4	2	0.2		100
002941						125
002942						160
002943						200
002944						250
002945						315
002946						400
002947						500
002948	2.5	5	2	0.3		100
002949						125
002950						160
002951						200
002952						250
002953						315
002954						400
002955						500
002956	3	6	3	0.3		100
002957						125
002958						160
002959						200
002960						250
002961						315
002962						400
002963						500
002964						630
002965	3.5	7	3	0.3		100
002966						125
002967						160
002968						200
002969						250
002970						315
002971						400
002972						500
002973						630
002974	4	8	3	0.3		100
002975						125
002976						160
002977						200
002978						250
002979						315
002980						400
002981						500
002982						630

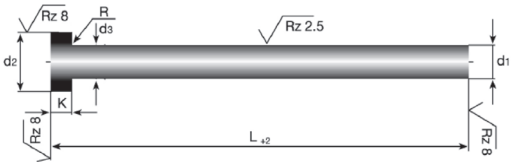
Sip. No	d1	d2	K	R	d3	L
002983	4.5	8	3	0.3	d1 +0.03	100
002984						125
002985						160
002986						200
002987						250
002988						315
002989						400
002990						500
002991						630
002992	5	10	3	0.3		100
002993						125
002994						160
002995						200
002996						250
002997						315
002998						400
002999						500
003000						630
003001	5.5	10	3	0.3		800
003002						1000
003003						100
003004						125
003005						160
003006						200
003007						250
003008						315
003009						400
003010						500
003011						630
003012	6	12	5	0.5		100
003013						125
003014						160
003015						200
003016						250
003017						315
003018						400
003019						500
003020						630
003021						800
003022						1000
003023	6.5	12	5	0.5		100
003024						125
003025						160
003026						200
003027						250
003028						315
003029						400
003030						500
003031						630
003032	7	12	5	0.5		100
003033						125
003034						160
003035						200

Sip. No	d1	d2	K	R	d3	L
003036	7	12	5	0.5	d1 +0.03	250
003037						315
003038						400
003039						500
003040						630
003041	7.5	12	5	0.5		100
003042						125
003043						160
003044						200
003045						250
003046						315
003047						400
003048						500
003049						630
003050	8	14	5	0.5		100
003051						125
003052						160
003053						200
003054	8	14	5	0.5		250
003055						315
003056						400
003057						500
003058						630
003059						800
003060						1000
003061	8.5	14	5	0.5	d1 +0.04	100
003062						125
003063						160
003064						200
003065						250
003066						315
003067						400
003068						500
003069						630
003070	9	14	5	0.5		100
003071						125
003072						160
003073						200
003074						250
003075						315
003076						400
003077						500
003078						630
003079	10	16	5	0.5		100
003080						125
003081						160
003082						200
003083						250
003084						315
003085						400
003086						500
003087						630
003088						800

Sip. No	d1	d2	K	R	d3	L
003089	10	16	5	0.5	d1 +0.04	1000
003090	10.5	16	5	0.5		100
003091						125
003092						160
003093						200
003094						250
003095						315
003096						400
003097						500
003098						630
003099						800
003100						1000
003101	11	16	5	0.5		100
003102						125
003103						160
003104						200
003105						250
003106						315
003107						400
003108						500
003109						630
003110	12	18	7	0.8		100
003111						125
003112						160
003113						200
003114						250
003115						315
003116						400
003117						500
003118						630
003119						800
003120						1000
003121	12.5					100
003122						125
003123						160
003124						200
003125						250
003126	13	22	7	0.8		100
003127						125
003128						160
003129						200
003130						250
003131						315
003132						400
003133						500
003134						630
003135						800
003136	14	22	7	0.8		100
003137						125
003138						160
003139						200
003140						250
003141						315

Sip. No	d1	d2	K	R	d3	L
003142	14	22	7	0.8	d1 +0.04	400
003143						500
003144						630
003145						800
003146						1000
003147	16	22	7	0.8		100
003148						125
003149						160
003150						200
003151						250
003152						315
003153						400
003154						500
003155						630
003156						800
003157						1000
003158	18	24	7	0.8		100
003159						125
003160						160
003161						200
003162						250
003163						315
003164						400
003165						500
003166						630
003167						800
003168						1000
003169	20	26	8	1	d1 +0.1	100
003170						125
003171						160
003172						200
003173						250
003174						315
003175						400
003176						500
003177						630
003178						800
003179						1000
003180	25	32	10	1		100
003181						125
003182						160
003183						200
003184						250
003185						315
003186						400
003187						500
003188						630
003189						800
003190						1000





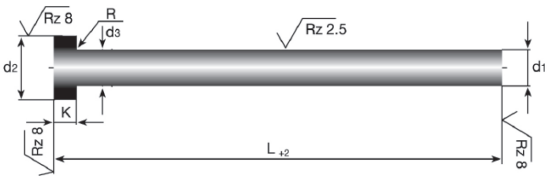
Silindir Başlı Ondalıklı İtici SBO

Malzeme : Çelik 1.2516
Sertlik : 60+2–Kafa 45+5 HRC
Yüzey : Sertleştirilmiş, Taşlanmış

Sipariş Örneği : d1xL

Sip. No	d1	d2	d3	K	L
003191	1.1	2.5	d1 +0.03	1.2	80
003192					100
003193					125
003194					160
003195					200
003196					250
003197	1.2	2.5		1.2	80
003198					100
003199					125
003200					160
003201					200
003202					250
003203	1.3	3		1.5	80
003204					100
003205					125
003206					160
003207					200
003208					250
003209	1.4	3		1.5	80
003210					100
003211					125
003212					160
003213					200
003214					250
003215	1.6	3		1.5	80
003216					100
003217					125
003218					160
003219					200
003220					250
003221	1.7	3		1.5	80
003222					100
003223					125
003224					160
003225					200
003226					250
003227	1.8	3		1.5	80
003228					100
003229					125
003230					160
003231					200
003232					250
003233	1.9	3		1.5	80
003234					100
003235					125
003236					160
003237					200
003238					250
003239	2.1	4		2	80
003240					100
003241					125
003242					160
003243					200
003244					250
003245	2.2	4		2	80
003246					100
003247					125
003248	2.2	4	d1 +0.03	2	160
003249					200
003250					250
003251	2.3	4		2	80
003252					100
003253					125
003254					160
003255					200
003256					250
003257	2.4	4		2	80
003258					100
003259					125
003260					160
003261					200
003262					250
003263	2.6	5		2	80
003264					100
003265					125
003266					160
003267					200
003268					250
003269	2.7	5		2	80
003270					100
003271					125
003272					160
003273					200
003274					250
003275	2.8	5		2	80
003276					100
003277					125
003278					160
003279					200
003280					250
003281	2.9	5		2	80
003282					100
003283					125
003284					160
003285					200
003286					250
003287	3.1	6		3	80
003288					100
003289					125
003290					160
003291					200
003292					250
003293	3.2	6		3	80
003294					100
003295					125
003296					160
003297					200
003298					250
003299	3.3	6		3	80
003300					100
003301					125
003302					160
003303					200
003304					250
003305	3.4	6	d1 +0.03	3	80
003306					100
003307					125
003308					160
003309					200
003310					250
003311	3.6	7		3	80
003312					100
003313					125
003314					160
003315					200
003316					250
003317	3.7	7		3	80
003318					100
003319					125
003320					160
003321					200
003322					250
003323	3.8	7		3	80
003324					100
003325					125
003326					160
003327					200
003328					250
003329	3.9	7		3	80
003330					100
003331					125
003332					160
003333					200
003334					250
003335	4.1	8		3	80
003336					100
003337					125
003338					160
003339					200
003340					250
003341	4.2	8		3	80
003342					100
003343					125
003344					160
003345					200
003346					250
003347	4.3	8		3	80
003348					100
003349					125
003350					160
003351					200
003352					250
003353	4.4	8		3	80
003354					100
003355					125
003356					160
003357					200
003358					250
003359	4.6	8		3	80
003360					100
003361					125
003362	4.6	8	d1 +0.03	3	160
003363					200
003364					250
003365	4.7	8		3	80
003366					100
003367					125
003368					160
003369					200
003370					250
003371	4.8	8		3	80
003372					100
003373					125
003374					160
003375					200
003376					250
003377	4.9	8		3	80
003378					100
003379					125
003380					160
003381					200
003382					250
003383	5.3	10		3	80
003384					100
003385					125
003386					160
003387					200
003388					250
003389	5.4	10		3	80
003390					100
003391					125
003392					160
003393					200
003394					250
003395	5.6	10		3	80
003396					100
003397					125
003398					160
003399					200
003400					250
003401	5.7	10		3	80
003402					100
003403					125
003404					160
003405					200
003406					250
003407	5.8	10		3	80
003408					100
003409					125
003410					160
003411					200
003412					250
003413	5.9	10		3	80
003414					100
003415					125
003416					160
003417					200
003418					250





Metal Enjeksiyon Silindir Başlı İtici

Malzeme : Sıcak İş Çeliği 1.2344
Sertlik : 65+2–Kafa 45+5 HRC
Yüzey : Nitritli, Taşlanmış

SBIMS–Siyah Kaplama
SBIMB–Beyaz Kaplama

Sipariş Örneği : d1xL

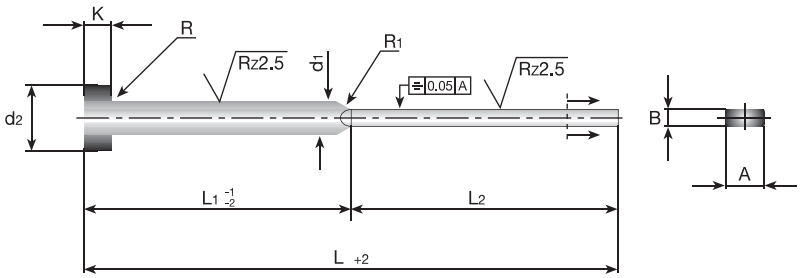
Sip. No	d1	d2	K	R	d3	L
003419	1	2.5	1.2	0.2	d1 +0.04	100
003420						125
003421						160
003422						200
003423						250
003424	1.5	3	1.5	0.2		100
003425						125
003426						160
003427						200
003428						250
003429	2	4	2	0.2		100
003430						125
003431						160
003432						200
003433						250
003434						315
003435						400
003436	2.5	5	2	0.3		100
003437						125
003438						160
003439						200
003440						250
003441						315
003442						400
003443	3	6	3	0.3		100
003444						125
003445						160
003446						200
003447						250
003448						315
003449						400
003450						500
003451	3.5	7	3	0.3		100
003452						125
003453						160
003454						200
003455						250
003456						315
003457						400
003458						500
003459	4	8	3	0.3		100
003460						125
003461						160
003462						200
003463						250
003464						315
003465						400
003466						500
003467						630
003468						800
003469	4.5	8	3	0.3		100
003470						125
003471						160
003472						200
003473						250
003474						315
003475						400
003476						500
003477	5	10	3	0.3		100
003478						125
003479						160
003480						200

Sip. No	d1	d2	K	R	d3	L
003481	5	10	3	0,3	d1 +0.04	250
003482						315
003483						400
003484						500
003485						630
003486						800
003487						1000
003488	5.5	10	3	0.3		100
003489						125
003490						160
003491						200
003492						250
003493						315
003494						400
003495						500
003496	6	12	5	0.5		100
003497						125
003498						160
003499						200
003500						250
003501						315
003502						400
003503						500
003504						630
003505						800
003506						1000
003507	6.5	12	5	0.5		100
003508						125
003509						160
003510						200
003511						250
003512						315
003513						400
003514						500
003515	7	12	5	0.5		100
003516						125
003517						160
003518						200
003519						250
003520						315
003521						400
003522						500
003523						100
003524	7,5	12	5	0.5		125
003525						160
003526						200
003527						250
003528						315
003529						400
003530						500
003531	8	14	5	0.5		100
003532						125
003533						160
003534						200
003535						250
003536						315
003537						400
003538						500
003539						630
003540						800
003541						1000
003542	8.5	14	5	0.5		100

Sip. No	d1	d2	K	R	d3	L
003543	8.5	14	5	0,5	d1 +0.04	125
003544						160
003545						200
003546						250
003547						315
003548						400
003549						500
003550	9	14	5	0,5		100
003551						125
003552						160
003553						200
003554						250
003555						315
003556						400
003557						500
003558	10	16	5	0,5		100
003559						125
003560						160
003561						200
003562						250
003563						315
003564						400
003565						500
003566						630
003567						800
003568						1000
003569	10.5	16	5	0,5		100
003570						125
003571						160
003572						200
003573						250
003574						315
003575						400
003576						500
003577						630
003578						800
003579						1000
003580	11	16	5	0,5		100
003581						125
003582						160
003583						200
003584						250
003585						315
003586						400
003587						500
003588	12	18	7	0.8		100
003589						125
003590						160
003591						200
003592						250
003593						315
003594						400
003595						500
003596						630
003597						800
003598						1000
003599	13	22	7	0.8		100
003600						125
003601						160
003602						200
003603						250
003604						315

Sip. No	d1	d2	K	R	d3	L
003605	13	22	7	0,8	d1 +0.04	400
003606						500
003607						630
003608						800
003609	14	22	7	0.8		100
003610						125
003611						160
003612						200
003613						250
003614						315
003615						400
003616						500
003617						630
003618						800
003619						1000
003620	16	22	7	0.8		100
003621						125
003622						160
003623						200
003624						250
003625						315
003626						400
003627						500
003628						630
003629						800
003630						1000
003631	18	24	7	0.8		100
003632						125
003633						160
003634						200
003635						250
003636						315
003637						400
003638						500
003639						630
003640						800
003641						1000
003642	20	26	8	1		100
003643						125
003644						160
003645						200
003646						250
003647						315
003648						400
003649						500
003650	25	32	10	1		630
003651						800
003652						1000
003653						100
003654						125
003655						160
003656						200
003657						250
003658						315
003659						400
003660						500
003661						630
003662						800
003663						1000





Metal Enjeksiyon Kalıpları

Malzeme : Sıcak İş Çeliği 1.2344 (Nitrirli)
Sertlik : Gövde–65 ± 2 HRC
Kafa–45 ± 5 HRC

Plastik Enjeksiyon Kalıpları

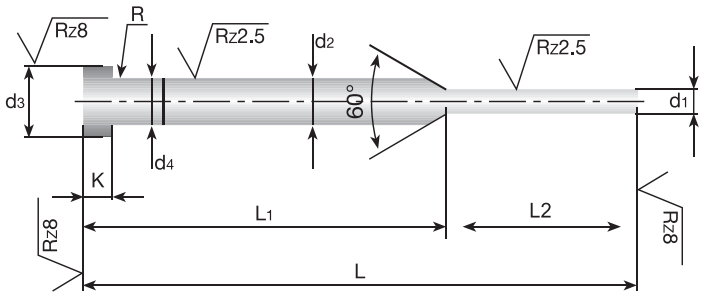
Malzeme : Özel Alaşımlı Çelik 1.2516
Sertlik : Gövde–60 ± 2 HRC
Kafa–45 ± 5 HRC

Lama itici pimler özel ürün olup, tablo temsilen örnek olarak verilmiştir. İstenilen her ebat ve ölçülerde temin edilebilir. Sürekli stoklarımızda bulunamayabilir. Lütfen termin süresi isteyiniz.

Sipariş Örneği : d1 x L x L1 x L2 x A x B

d1 g6	A -0.015	B -0.015	d2 -0.2	K -0.05	L1	30	40	50	65	80	100	125	160	200
					L2	30	40	50	60	80	100	125	155	200
					L	60	80	100	125	160	200	250	315	400
4	3.5	1	8	3										
4.2	3.8	1	8	3										
4.2	3.8	1.2	8	3										
6	5.5	1.2	12	5										
6	5.5	1.5	12	5										
6	5.5	2	12	5										
8	7.5	1.2	14	5										
8	7.5	1.5	14	5										
8	7.5	2	14	5										
10	9.5	1.5	16	5										
10	9.5	2	16	5										
12	11.5	2.5	18	7										
16	15.5	2	22	7										
16	15.5	2.5	22	7										





Metal Enjeksiyon Kalıpları

Malzeme : Sıcak İş Çeliği 1.2344 (Nitrirli)
Sertlik : Gövde–65 ± 2 HRC
Kafa–45 ± 5 HRC

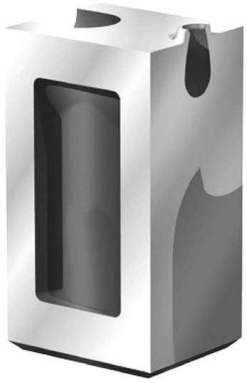
Plastik Enjeksiyon Kalıpları

Malzeme : Özel Alaşımlı Çelik 1.2516
Sertlik : Gövde–60 ± 2 HRC
Kafa–45 ± 5 HRC

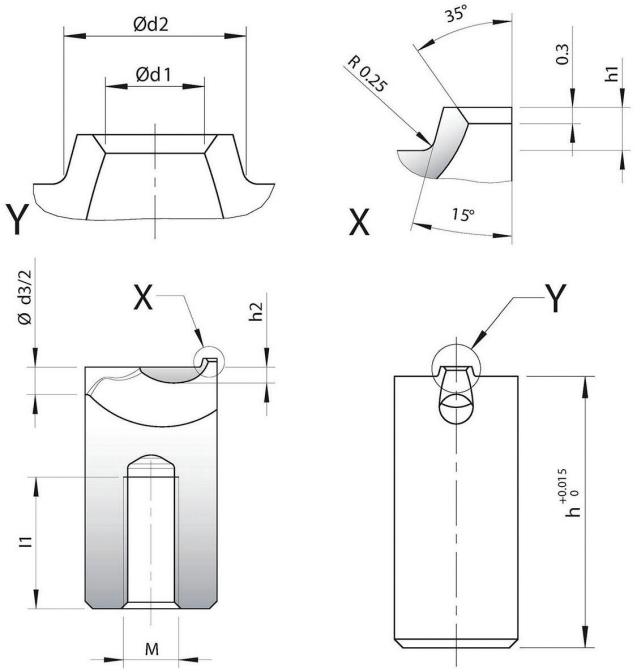
Kademeli itici pimler özel ürün olup, tablo temsilen örnek olarak verilmiştir. İstenilen her ebat ve ölçülerde temin edilebilir. Sürekli stoklarımızda bulunamayabilir. Lütfen termin süresi isteyiniz.

Sipariş Örneği : d2 x d1 x L x L1 x L2

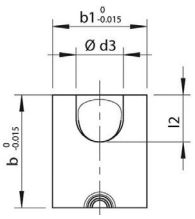
d1 g6		d2 g6	d3 -0.2	d4	K -0.05	R +0.2	L	100	125	160	200
min	max						L1	50	50	75	75
0.8	1.4	2	4	d1 +0.03	2	0.2					
1.5	2.4	3	6		3	0.3					
2.5	2.9	3	6		3	0.3					

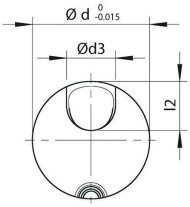






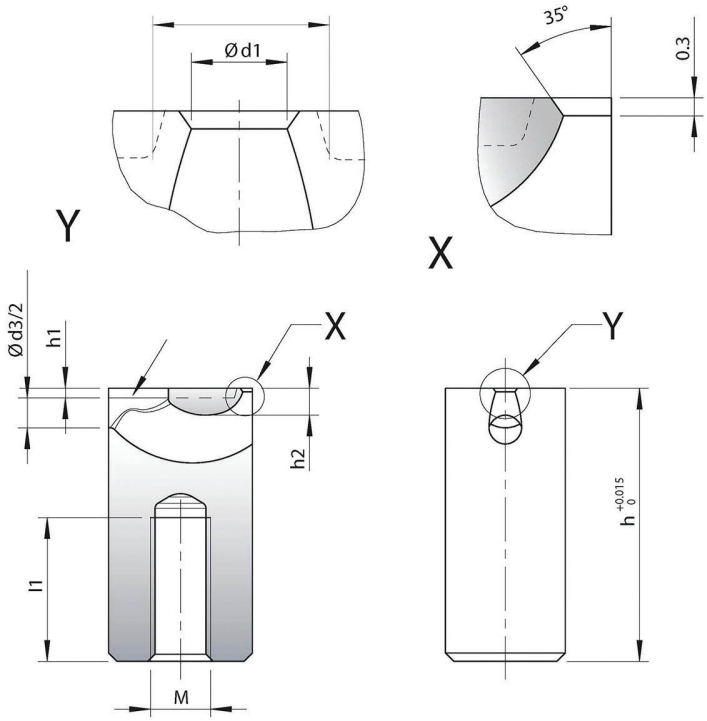
Muz Yolluk Sistemleri

Sip. No	HGS	Ürün Kodu	b	b1	d1	d3	h	h1	h2	l1	l2	M
003664		HGS8 / S1	8	6	0.6	3	22.6	0.6	1.7	13	3.25	4
003665					0.8							
003666		HGS10 / S1	10	8	0.8	4	22.8	0.8	2.0	12	4	5
003667					1.2							
003668					1.6							
003669		HGS12 / S1	12	10	1.2	5	22.8	0.8	2.2	11	5	5
003670					1.6							
003671					2.0							
003672		HGS14 / S1	14	12	1.6	6	22.8	0.8	2.4	10	6	6
003673					2.0							
003674					2.4							
003675					2.8							

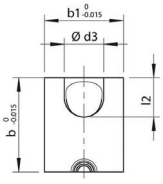
Sip. No	HGR	Ürün Kodu	d	d1	d3	h	h1	h2	l1	l2	M
003676		HGR6 / S1	6	0.6	2.5	17.6	0.6	1.4	10	2.5	4
003677		HGR8 / S1	8	0.6	3	22.6	0.6	1.7	13	3.25	4
003678				0.8							
003679		HGR10 / S1	10	0.8	4	22.8	0.8	2.0	12	4	5
003680				1.2							
003681				1.6							
003682		HGR12 / S1	12	1.2	5	22.8	0.8	2.2	11	5	5
003683				1.6							
003684				2.0							
003685		HGR14 / S1	14	1.6	6	22.8	0.8	2.4	10	6	6
003686				2.0							
003687				2.4							
003688				2.8							

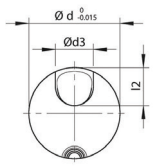




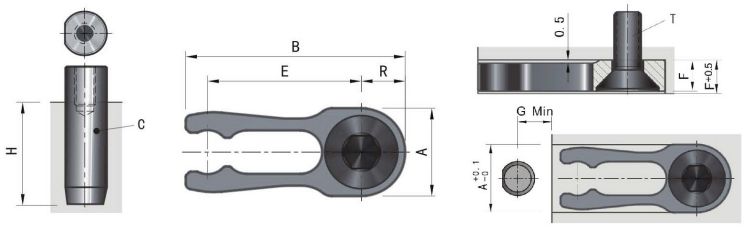


Muz Yolluk Sistemleri

Sip. No	HGS	Ürün Kodu	b	b1	d1	d2	d3	h	h1	h2	l1	l2	M
003689		HGS8 / S2	8	6	0.6	1.9	3	22.0	0.6	1.1	13	3.25	4
003690					0.8	2.1							
003691		HGS10 / S2	10	8	0.8	2.2	4	22.0	0.8	1.2	12	4	5
003692					1.2	2.6							
003693					1.6	3.0							
003694		HGS12 / S2	12	10	1.2	2.6	5	22.0	0.8	1.40	11	5	5
003695					1.6	3.0							
003696					2.0	3.4							
003697		HGS14 / S2	14	12	1.6	3.0	6	22.0	0.8	1.6	10	6	6
003698					2.0	3.4							
003699					2.4	3.8							
003700					2.8	4.2							

Sip. No	HGR	Ürün Kodu	d	d1	d2	d3	h	h1	h2	l1	l2	M
003701		HGR6 / S2	6	0.6	1.9	2.5	17.0	0.6	0.8	10	2.5	4
003702		HGR8 / S2	8	0.6	1.9	3	22.0	0.6	1.1	13	3.25	4
003703				0.8	2.1							
003704		HGR10 / S2	10	0.8	2.2	4	22.0	0.8	1.2	12	4	5
003705				1.2	2.6							
003706				1.6	3.0							
003707		HGR12 / S2	12	1.2	2.6	5	22.0	0.8	1.4	11	5	5
003708				1.6	3.0							
003709				2.0	3.4							
003710		HGR14 / S2	14	1.6	3.0	6	22.0	0.8	1.6	10	6	6
003711				2.0	3.4							
003712				2.4	3.8							
003713				2.8	4.2							



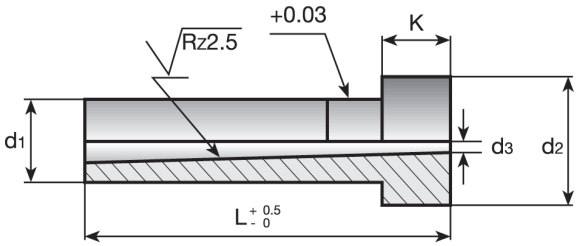


Maça Tutucu

Malzeme : 1.8159
Sertlik : 45 ± 3 HRC

Sip. No	A	B	C	E	F	G	H	J	K	N	R	S	T
003714	16	38	8	25	7.7	7.6	4	10	10 kg.	7	8	M5	M6
003715	20	48	10	32	8.7	8.6	5	11	14 kg.	8	10	M6	M8
003716	24	57	12	37.5	9.7	9.6	6	12	18 kg.	9	12	M8	M10





Plastik Kalıp Yolluk Memeleri

Malzeme : Özel Alaşımlı Çelik
Yüzey : Sertleştirilmiş, Taşlanmış

Sip. No	d1	d2	K	d3	L
003717	12	28	20	3.3	50
003718					65
003719					75
003720					85
003721					95
003722					105
003723					115
003724					125
003725					135
003726					150
003727					200
003728	14				50
003729					65
003730					75
003731					85
003732					95
003733					105
003734					115
003735					125
003736					135
003737					150
003738					200

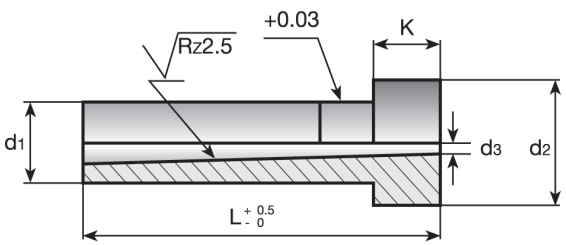
Sip. No	d1	d2	K	d3	L
003739	16	28	20	3.3	50
003740					65
003741					75
003742					85
003743					95
003744					105
003745					115
003746					125
003747					135
003748					150
003749					200
003750	18				50
003751					65
003752					75
003753					85
003754					95
003755					105
003756					115
003757					125
003758					135
003759					150
003760					200

Sip. No	d1	d2	K	d3	L
003761	20	28	20	3.3	50
003762					65
003763					75
003764					85
003765					95
003766					105
003767					115
003768					125
003769					135
003770					150
003771					200
003772	12	28	20	4.3	50
003773					65
003774					75
003775					85
003776					95
003777					105
003778					115
003779					125
003780					135
003781					150
003782					200

Sip. No	d1	d2	K	d3	L
003783	14	28	20	4.3	50
003784					65
003785					75
003786					85
003787					95
003788					105
003789					115
003790					125
003791					135
003792					150
003793					200
003794	16				50
003795					65
003796					75
003797					85
003798					95
003799					105
003800					115
003801					125
003802					135
003803					150
003804					200

Sip. No	d1	d2	K	d3	L
003805	18	28	20	4.3	50
003806					65
003807					75
003808					85
003809					95
003810					105
003811					115
003812					125
003813					135
003814					150
003815					200
003816	20				50
003817					65
003818					75
003819					85
003820					95
003821					105
003822					115
003823					125
003824					135
003825					150
003826					200





Metal Kalıp Yolluk Memeleri

Malzeme : Sıcak İş Çeliği 1.2344
Yüzey : Sertleştirilmiş, Taşlanmış

Sip. No	d1	d2	K	d3	L
003827	12	28	25	5,6	50
003828					65
003829					75
003830					85
003831					95
003832					105
003833					115
003834					125

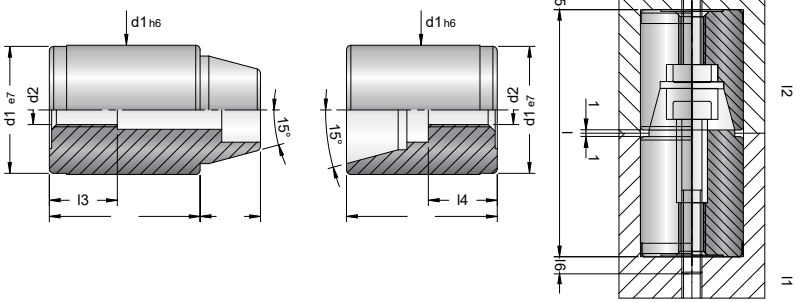
Sip. No	d1	d2	K	d3	L
003835	14	28	25	5,6	50
003836					65
003837					75
003838					85
003839					95
003840					105
003841					115
003842					125

Sip. No	d1	d2	K	d3	L
003843	16	28	25	5,6	50
003844					65
003845					75
003846					85
003847					95
003848					105
003849					115
003850					125

Sip. No	d1	d2	K	d3	L
003851	18	28	25	5,6	50
003852					65
003853					75
003854					85
003855					95
003856					105
003857					115
003858					125

Sip. No	d1	d2	K	d3	L
003859	20	28	25	5,6	50
003860					65
003861					75
003862					85
003863					95
003864					105
003865					115
003866					125





Ö50–Konik Kilitleme KK

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Yüzey : Sementasyon

Sipariş Örneği : d1

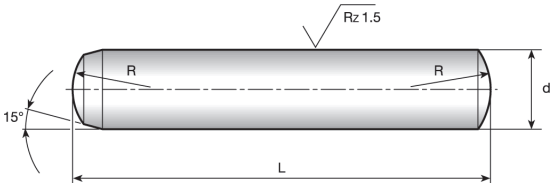
Sip. No	d1	L	L1	L2	L3	L4	L5	L6	d2
003867	12	34	16	4.5	9.6	8.6	8	7.5	M4
003868	14	34	16	6	12.4	6	7.5	8	M5
003869	16	34	16	6	12.4	5.8	7.5	8	M5
003870	20	54	26	9	19.7	10.6	12	9.5	M8

Sip. No	d1	L	L1	L2	L3	L4	L5	L6	d2
003871	25	54	26	10	19.7	9.2	11	11	M8
003872	30	72	35	14	25	12.2	15	13	M10
003873	32	72	35	14	25	12.2	15	13	M10
003874	42	92	45	18	27	16.8	16	13	M10



Düz Tespit Pimi

Sertlik : 60 HRC
Yüzey : Sertleştirilmiş, Taşlanmış
Standart : h6 / m6 Toleranslı



Sipariş Örneği : d x L

Sip. No	d	L
003875	3	10
003876		16
003877		20
003878		24
003879		30
003880		36
003881		40
003882		45
003883		50
003884	4	10
003885		16
003886		20
003887		24
003888		30

Sip. No	d	L
003889	4	36
003890		40
003891		45
003892		50
003893		55
003894		60
003895	5	10
003896		16
003897		20
003898		24
003899		30
003900		36
003901		40
003902		45

Sip. No	d	L
003903	5	50
003904		55
003905		60
003906		70
003907		80
003908	6	10
003909		16
003910		20
003911		24
003912		30
003913		36
003914		40
003915		45
003916		50

Sip. No	d	L
003917	6	55
003918		60
003919		70
003920		80
003921		90
003922		100
003923	8	16
003924		20
003925		24
003926		30
003927		36
003928		40
003929		45
003930		50

Sip. No	d	L
003931	8	55
003932		60
003933		70
003934		80
003935		90
003936		100
003937		120
003938	10	16
003939		20
003940		24
003941		30
003942		36
003943		40
003944		45

Sip. No	d	L
003945	10	50
003946		55
003947		60
003948		70
003949		80
003950		90
003951		100
003952		120
003953	12	24
003954		30
003955		36
003956		40
003957		45
003958		50

Sip. No	d	L
003959	12	55
003960		60
003961		70
003962		80
003963		90
003964		100
003965		120
003966	14	30
003967		36
003968		40
003969		45
003970		50
003971		55
003972		60

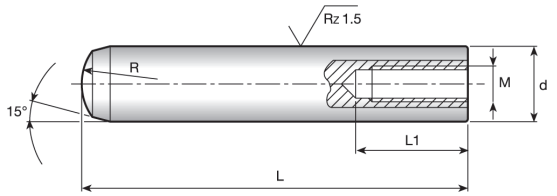
Sip. No	d	L
003973	14	70
003974		80
003975		90
003976		100
003977		120
003978	16	30
003979		36
003980		40
003981		45
003982		50
003983		55
003984		60
003985		70
003986		80

Sip. No	d	L
003987	16	90
003988		100
003989		120
003990	20	40
003991		45
003992		50
003993		55
003994		60
003995		70
003996		80
003997		90
003998		100
003999		120



Çektirmeli Tespit Pimi

Sertlik : 60 HRC
Yüzey : Sertleştirilmiş, Taşlanmış
Standart : h6 / m6 Toleranslı



Sipariş Örneği : d x L

Sip. No	d	L	M	L1
004000	6	20	M4	10
004001		24		
004002		30		
004003		36		
004004		40		
004005		45		
004006		50		
004007		55		
004008		60		
004009		70		
004010		80		
004011	8	20	M5	12
004012		24		
004013		30		
004014		36		
004015		40		
004016		45		

Sip. No	d	L	M	L1
004017	8	50	M5	12
004018		55		
004019		60		
004020		70		
004021		80		
004022		90		
004023		100		
004024	10	20	M6	16
004025		24		
004026		30		
004027		36		
004028		40		
004029		45		
004030		50		
004031		55		
004032		60		
004033		70		

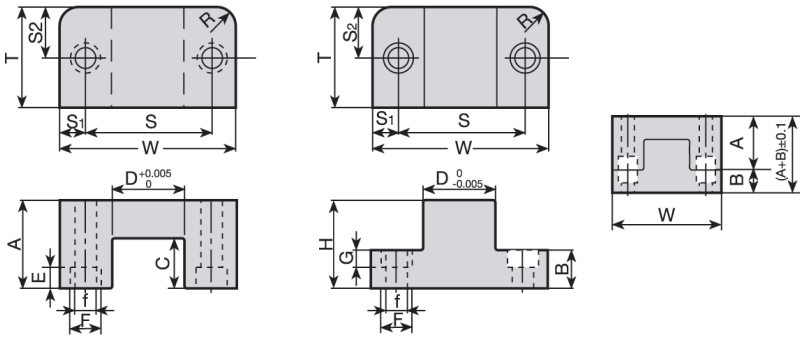
Sip. No	d	L	M	L1
004034	10	80	M6	16
004035		90		
004036		100		
004037		120		
004038	12	20		
004039		24		
004040		30		
004041		36		
004042		40		
004043		45		
004044		50		
004045		55		
004046		60		
004047		70		
004048		80		
004049		90		
004050		100		
004051		120		

Sip. No	d	L	M	L1
004052	14	40	M8	20
004053		45		
004054		50		
004055		55		
004056		60		
004057		70		
004058		80		
004059		90		
004060		100		
004061		120		
004062	16	40		
004063		45		
004064		50		
004065		55		
004066		60		
004067		70		
004068		80		

Sip. No	d	L	M	L1
004069	16	90	M8	20
004070		100		
004071		120		
004072	20	40	M10	25
004073		45		
004074		50		
004075		55		
004076		60		
004077		70		
004078		80		
004079		90		
004080		100		
004081		120		



KBK/LK–Küp Blok Kilitleme

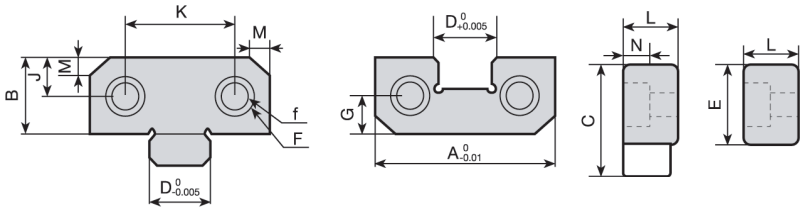


Sipariş Örneği : Kod

Sip. No	Kod	W	T	A	B	C	D	E	M	F	f	G	H	R	S	S1	S2
004082	LK 15	38,1	25,4	22,17	9,47	13,13	12,7	7	M5	10,5	6	7	22,1	7	25,4	6,35	12,7
004083	LK 25	63,5	38,1	34,87	15,82	19,48	25,4	8	M6	12	7,2	8	34,8	8,5	44,45	9,53	19,05
004084	LK 35	88,9	50,8	44,4	19	25,7	36,58	11	M8	15,5	10,5	11	44,2	9,5	63,5	12,7	25,4



KKB/PL–Kare Blok Kilitleme

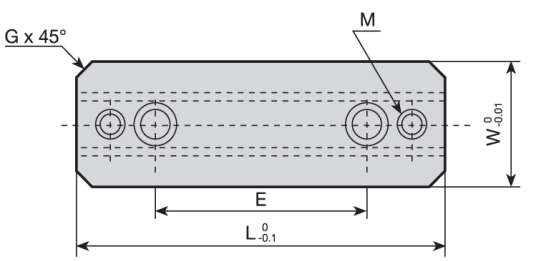


Sipariş Örneği : Kod

Sip. No	Kod	A	B	C	D	E	F	f	G	J	K	L	M	N
004085	PL 38	38	22	30	12	17	10,5	6,5	7	11	22	13	5	8
004086	PL 50	50	21,5	30	17	21,5	10,5	6,5	11	11	34	16	5	8
004087	PL 75	75	36	50	25	36	16,5	10,5	18	18	50	19	8	12
004088	PL 100	100	45	65	35	45	16,5	10,5	22	22	70	19	10	12
004089	PL 125	125	45	65	45	45	16,5	10,5	22	22	84	25	10	12

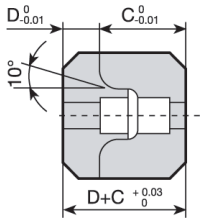


UKK/KY–Uzun Kare Blok Kilitleme

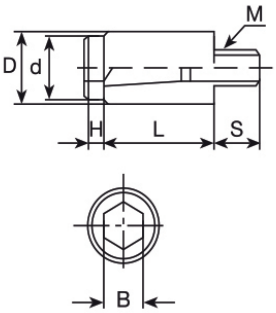


Sipariş Örneği : Kod

Sip. No	Kod	L	W	C	D	E	G	M
004090	KY 50	50	25	17,5	8	36	5	M5
004091	KY 100	100	30	22	10	60	5	M6
004092	KY 150	150	40	25	13	100	5	M6



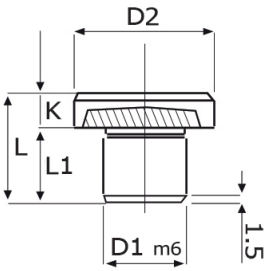




Plaka Çektirmeler (İthal)

Sip. No	D	d	M	B	H	L	S
004093	12	11	M6	5	3	20	8
004094	13	11	M6	5	3	20	8
004095	16	14	M8	6	4	25	10
004096	20	16	M10	6	4	25	10



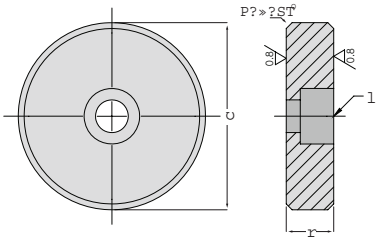


Dayama Plakası

Malzeme : 16NCD4
Sertlik : 60 / 62 HRC

Sip. No	D1	D2	K	L1	L
004097	8	16	5	12	17
004098	14	24	6	15	21





Yuvarlak, Çelik Sıkma Plakalar

Maça Altlıkları–Hareketli veya Sabit Yüzeylerde

Sip. No	D -0.4	S ±0.03	M
004099	20	8.1	M5
004100	32	8.1	M5
004101	40	10.1	M6
004102	50	10.1	M6
004103	64	12.1	M6

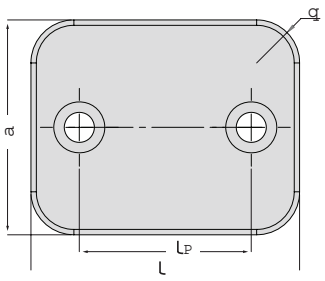


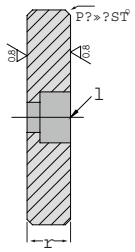
Kalıp Yolluk Flanşı

Malzeme : Sıcak İş Çeliği 1.2344
Yüzey : Sertleştirilmiş, Taşlanmış

Sip. No	Flanş Çapı	Kalınlık	Delik Çapı
004104	100	25	28
004105	120		
004106	125		
004107	160		
004108	200		







Dikdörtgen, Çelik Sıkma Plakalar

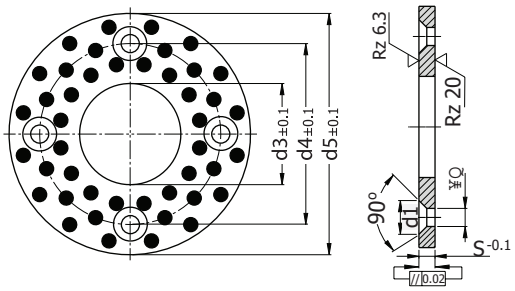
Maça Altlıkları–Hareketli veya Sabit Yüzeylerde

Sip. No	B -0.5	L -0.5	S +0.02 0	L1	R	M
004109	32	40	8.1	24	8	M5
004110		64		40		M5
004111		100	10.1	64		M5
004112	40	50	8.1	32	8	M5
004113		80	10.1	52		M6
004114		100	12.1	64		

Sip. No	B -0.5	L -0.5	S +0.02 0	L1	R	M
004115	50	64	10.1	40	8	M6
004116		100	12.1	64		
004117		125		80		
004118	64	80	10.1	52	8	M6
004119		100	12.1	64		
004120		125		80		
004121		160		100		



Bronz Grafitli Delikli Flanş

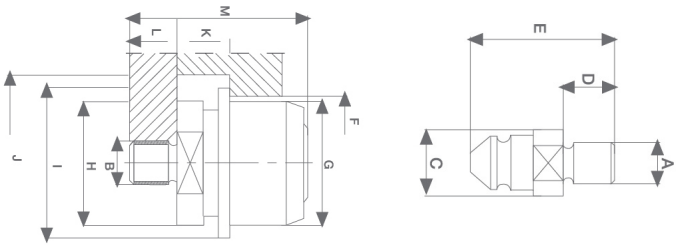


Malzeme : Bronz + Grafit

Sip. No	d3	d5	d4	s	d1	d2	Delik
004122	12.2	40	28	3	-	-	-
004123	16.2	50	28	3	-	-	-
004124	20.2	50	35	5	11.5	5.5	2
004125	25.2	55	40	5	11.5	5.5	2
004126	30.2	60	45	5	11.5	5.5	2
004127	35.2	70	50	5	11.5	5.5	2

Sip. No	d3	d5	d4	s	d1	d2	Delik
004128	40.2	80	60	7	13.8	6.6	2
004129	45.3	90	67.5	7	13.8	6.6	2
004130	50.3	100	75	8	13.8	6.6	4
004131	60.3	120	90	8	18.3	8.4	4
004132	70.3	130	100	10	18.3	8.4	4
004133	80.3	150	120	10	18.3	8.4	4





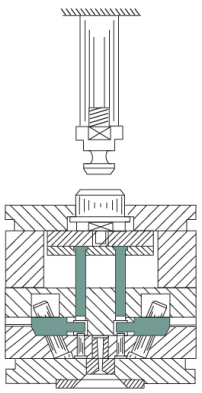
Otomatik İtici Plaka Bağlantı Sistemleri

1. Pozisyon; kalıp kapalıyken hammadde kalıba enjekte edilir.

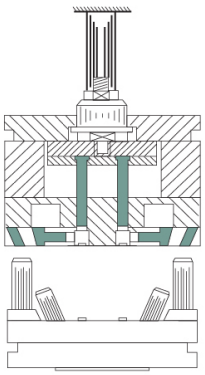
2. Pozisyon; kalıp ile birlikte maçalardan açılır. Sistemin makina itici grubunun uç kısmına monte edilen hareketli pim, yuvasına girer ve kitlenir. Hareket devam eder, itici pimler mamülü kalıptan çıkarır ve tekrar geriye çekerek itici pim olası maça temasına karşı korur.

3. Pozisyon; kalıp kapanır. Sistem görevini tamamlamıştır.

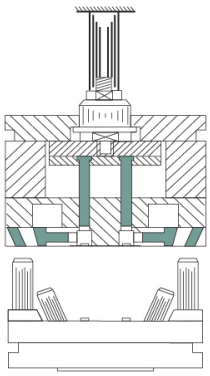
1. Pozisyon



2. Pozisyon



3. Pozisyon

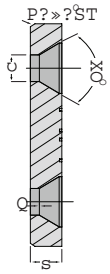


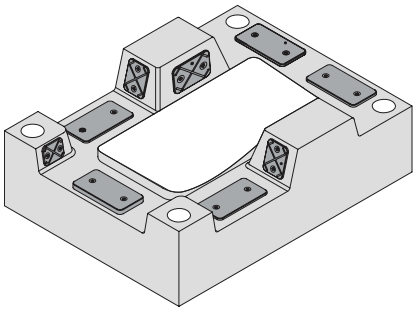
Kullanım ve avantajları; bu sistem özellikle maçalı kalıplar için ideal olup maçaların altında kalan iticileri kalıp kapanmadan önce geri çekmeyi sağlayan sistemdir. Otomatik çalışması istenen kalıplarda yay vs. Kullanmadan defalarca itici vuruşu sağlanabilir. Kalıp üzerindeki uygulamalarında iticiyi maça bindirmelerine karşı koruma sağlar. Bakım–onarım masraflarından ve zamandan tasarruf sağlar.

Sip. No	A				
	A	C	D	E	Kg
004134	M10 x 1.5	26	20	56	2500
004135	M10 x 1.75				
004136	M14 x 2				
004137	M16 x 2	35	25	68	3500
004138	M18 x 2.5				
004139	M20 x 2.5				
004140	M24 x 3				
004141	M24 x 3				
004142	M30 x 3.5				

Sip. No	B									
	B	F	G	H	I	J	K	L	M	Kg
004143	M16 x 1.5	40	38	38	48	50	15+0.1 / -0	14	52	2500
004144	M16 x 1.75									
004145	M16 x 1.5									
004146	M16 x 2	58	56	52	64	70	17+0.1 / -0	18	68	3500
004147	M18 x 1.5									
004148	M18 x 1.5									
004149	M20 x 1.5									
004150	M20 x 1.5									
004151	M20 x 1.5									

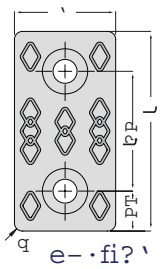


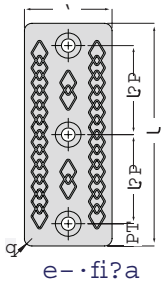


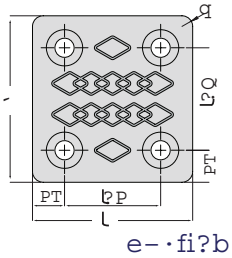


Basınç ve Ayar Plakaları (Yağ Oluklu)

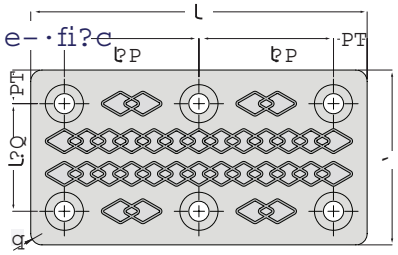
Sert–Isıl İşlemli, Maça Altlıkları–Hareketli veya Sabit Yüzeylerde

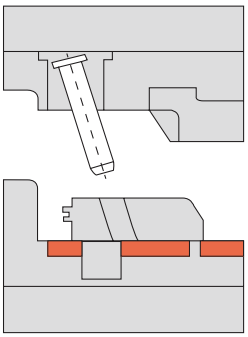




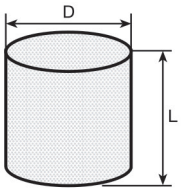


Sip. No	A +0 -0.2	L +0 -0.2	L1 ±0.1	L2 ±0.1	T ±0.2	R	D	Form	Havşa / İmbus Civata
004152	18	50	20	-	7	3	6.5	A	M6 x 20 2 Adet
004153		75	45						
004154		100	70						
004155		150	60					B	M6 x 20–3 Adet
004156	28	50	20	-	7	3	9	A	M8 x 20 2 Adet
004157		75	45						
004158		100	70						
004159		150	60					B	M8 x 20–3 Adet
004160	38	50	20	-	7	3	9	A	M8 x 20 2 Adet
004161		75	45						
004162		100	70						
004163		150	60					B	M8 x 20–3 Adet
004164	48	75	45	-	7	5	9	A	M8 x 20 2 Adet
004165		100	70						
004166		125	95						
004167		150	60					B	M8 x 20–3 Adet
004168	58	75	45	-	7	5	9	A	M8 x 20 2 Adet
004169		100	70						
004170		125	95						
004171		150	60					B	M8 x 20–3 Adet
004172	78	75	45	48	7	5	9	C	M8 x 20 4 Adet
004173		100	70						
004174		125	95						
004175		150	60					D	M8 x 20–6 Adet





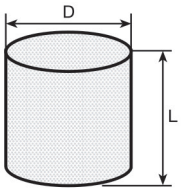




Gaz Atma Filtresi

Sip. No	004176	004177	004178	004179	004180	004181	004182	004183	004184	004185
D	2	3	4	5	6	8	10	12	15	16
L mm	5	10	10	10	10	10	10	12	10	10

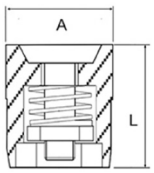




Sinterli Gaz Atma Filtresi

Sip. No	D1	D2	K	L1	L
004186	8	16	5	12	17
004187	14	24	6	15	21

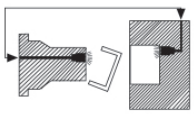


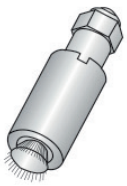


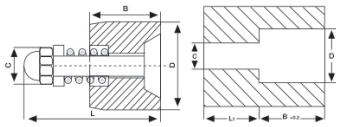
Mini Havalı Valf

Sip. No	A	L
004188	6	12
004189	8	12
004190	10	12
004191	12	12
004192	16	20
004193	20	20





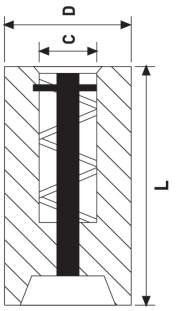




Havalı İtici Uzun Tip

Sip. No	D	B	C	L
004194	8	11	7	28
004195	10	11	7	30
004196	12	18	9	30
004197	16	20	10	43
004198	18	22	12	43
004199	20	20	12	46
004200	25	20	12	63

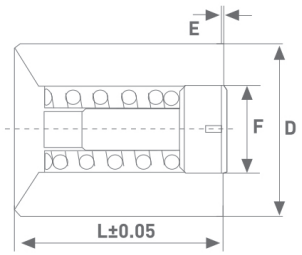




Havalı İtici Jet Tip

Sip. No	D	C	L
004201	6	4.2	12
004202	8	4.5	15
004203	10	6	20
004204	12	8	25
004205	16	10	30
004206	20	12	30
004207	25	15	30







Kalıp Takvimleri

Geri Dönüşüm Mühürleri

Göbek : Değişken değildir, her zaman sabit eksende döner.

Sip. No	d (mm)	L	E	F	Çeşitler
004208	4	6	0.20	2	
004209	5	8	0.20	2.5	
004210	6	8	0.20	3	
004211	8	10	0.25	4	
004212	10	10	0.35	4.7	
004213	12	12	0.35	6	
004214	16	14	0.35	7	
004215	20	14	0.35	10	

Sip. No	Ø Dmm	L–Tam Boy	Çeşitler
004216	6	8	
004217	8	10	
004218	10	10	
004219	12	12	
004220	16	14	
004221	20	14	

Sembol	Madde Cinsi
PET	Tereflete Polietilen
PE–HD	Yükselen Yogunluklu Polietilen
PVC	Vinil Poliklorid
PE- HD	Alçak Yogunluklu Polietilen
PP	Poli Propilen
PS	Polyester
ABS	Termopolimer Akrilonitril Budatadin Stren
	Gıda
PA	Naylon
POM	Poli Asetat
POM	Polifenil Oksit
PC	Polikarbonat



Civa Çelikleri

DIN17006

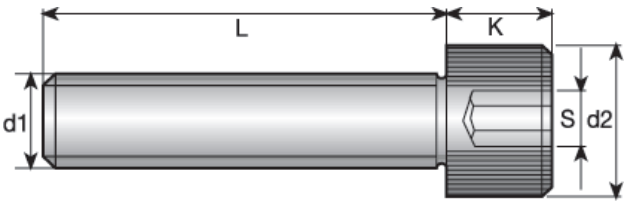
Dövme Tava	: 1050–800°C
Yumuşatma Tavı	: 700°C
Tav Sertliği	: 280 HB (Azami)
Gerilim Gerdirme / Tavlama	: 600°C
Sertleştirme için Ön Isı	: 650°C
Meneviş	: 180–200°C (1 saat / 25mm)
Sertleştirme	: Ø 12 ye kadar 800°C yağda Ø 12–20 kadar 820°C suda Ø 20–40 kadar 820°C suda

Su ile sertleştirilmiş Takım Çeliği Sıcak Şekil Verme–Isıl İşlem

Sip. No	Ø ÇAP	kg / m
004222	2 mm	0.040 kg
004223	2.5 mm	0.050 kg
004224	3 mm	0.056 kg
004225	3.5 mm	0.076 kg
004226	4 mm	0.100 kg
004227	4.5 mm	0.126 kg
004228	5 mm	0.154 kg
004229	5.5 mm	0.187 kg
004230	6 mm	0.222 kg
004231	6.5 mm	0.261 kg
004232	7 mm	0.302 kg
004233	7.5 mm	0.350 kg
004234	8 mm	0.396 kg
004235	8.5 mm	0.445 kg
004236	9 mm	0.500 kg
004237	9.5 mm	0.556 kg
004238	10 mm	0.617 kg
004239	10.5 mm	0.680 kg
004240	11 mm	0.750 kg
004241	11.5 mm	0.815 kg
004242	12 mm	0.888 kg
004243	12.5 mm	0.963 kg

Sip. No	Ø ÇAP	kg / m
004244	13 mm	1.002 kg
004245	13.5 mm	1.124 kg
004246	14 mm	1.208 kg
004247	14.5 mm	1.296 kg
004248	15 mm	1.387 kg
004249	16 mm	1.578 kg
004250	17 mm	1.782 kg
004251	18 mm	1.998 kg
004252	19 mm	2.226 kg
004253	20 mm	2.466 kg
004254	21 mm	2.719 kg
004255	22 mm	2.984 kg
004256	23 mm	3.262 kg
004257	24 mm	3.550 kg
004258	25 mm	3.853 kg
004259	26 mm	4.168 kg
004260	27 mm	4.495 kg
004261	28 mm	4.824 kg
004262	30 mm	5.550 kg
004263	32 mm	6.313 kg
004264	35 mm	7.550 kg
004265	40 mm	9.000 kg





İmbus Civata

Kalite : 12.9

Sip. No	d1	d2	K	S	L
004266	M3	5,5	3	2,5	10
004267					15
004268					20
004269					25
004270					30
004271					35
004272					40
004273					45
004274					50
004275	M4	7	4	3	10
004276					12
004277					15
004278					20
004279					25
004280					30
004281					35
004282					40
004283					45
004284					50
004285					55
004286					60
004287					70
004288					80
004289					90
004290	M5	8,5	5	4	10
004291					12
004292					15
004293					20
004294					25
004295					30
004296					35
004297					40
004298					45
004299	M5	8,5	5	4	50
004300					55
004301					60
004302					70
004303					80
004304					90
004305					100
004306					110
004307					120
004308	M6	10	6	5	10
004309					12
004310					15
004311					20
004312					25
004313					30
004314					35
004315					40
004316					45
004317					50
004318					55
004319					60

Sip. No	d1	d2	K	S	L
004320	M6	10	6	5	70
004321					80
004322					90
004323					100
004324					110
004325					120
004326					130
004327					140
004328					150
004329	M8	13	8	6	10
004330					12
004331					15
004332					20
004333					25
004334					30
004335					35
004336					40
004337					45
004338					50
004339					55
004340					60
004341					70
004342					80
004343					90
004344	M10	16	10	8	100
004345					110
004346					120
004347					130
004348					140
004349					150
004350					160
004351					180
004352					200
004353	M10	16	10	8	15
004354					20
004355					25
004356					30
004357					35
004358					40
004359					45
004360					50
004361					55
004362					55
004363					60
004364					70
004365					80
004366					55
004367					60
004368					70
004369					80
004370					90
004371					100
004372					110
004373					120

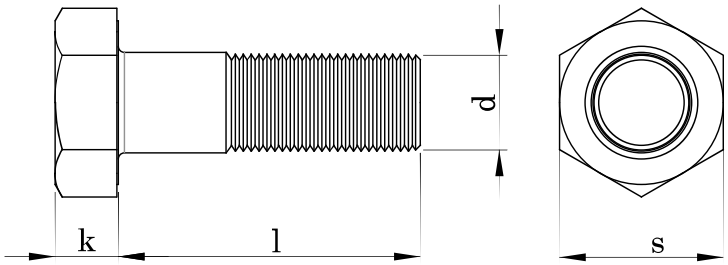
Sip. No	d1	d2	K	S	L
004374	M10	16	10	8	130
004375					140
004376					150
004377					160
004378					170
004379					180
004380					190
004381					200
004382					220
004383					240
004384					260
004385	M12	18	12	10	15
004386					20
004387					25
004388					30
004389					35
004390					40
004391					45
004392					50
004393					55
004394					60
004395					70
004396					80
004397					90
004398					100
004399					110
004400					120
004401					130
004402					140
004403					150
004404					160
004405					170
004406					180
004407					190
004408					200
004409					220
004410					240
004411					260
004412	M14	21	14	12	25
004413					30
004414					35
004415					40
004416					45
004417					50
004418					55
004419					60
004420					70
004421					80
004422					90
004423					100
004424					110
004425					120
004426					130
004427					140

Sip. No	d1	d2	K	S	L
004428	M14	21	14	12	150
004429					160
004430					170
004431					180
004432					190
004433					200
004434					220
004435					240
004436	M16	24	16	14	25
004437					30
004438					35
004439					40
004440					45
004441					50
004442					55
004443					60
004444					70
004445					80
004446					90
004447					100
004448	M16	24	16	14	110
004449					120
004450					130
004451					140
004452					150
004453					160
004454					170
004455					180
004456					190
004457					200
004458					220
004459					240
004460					260
004461	M18	27	18	14	35
004462					40
004463					45
004464					50
004465					55
004466					60
004467					70
004468					80
004469					90
004470					100
004471					110
004472					120
004473					130
004474					140
004475					150
004476					160
004477					170
004478					180
004479					190
004480					200

Sip. No	d1	d2	K	S	L
004481	M20	30	20	17	40
004482					45
004483					50
004484					55
004485					60
004486					70
004487					80
004488					90
004489					100
004490					110
004491					120
004492					130
004493					140
004494					150
004495					160
004496					170
004497					180
004498					190
004499					200
004500					220
004501					240
004502					260
004503	M24	36	24	19	50
004504					55
004505					60
004506					70
004507					80
004508					90
004509					100
004510					110
004511					120
004512					130
004513					140
004514					150
004515					160
004516					180
004517					200
004518					220
004519					240
004520					260
004521	M30	45	30	22	60
004522					70
004523					80
004524					90
004525					100
004526					120
004527					140
004528					170
004529					200
004530					220
004531					240
004532					260

ALTI KÖŞE YARIM DİŞ CİVATA 8.8





Altı Köşe Yarım Diş Civata

Kalite : 8.8

Sip. No	d	l	s	k
004533	M6	6	10	4
004534		8		
004535		10		
004536		12		
004537		16		
004538		20		
004539		25		
004540		30		
004541		35		
004542		40		
004543		45		
004544		50		
004545		55		
004546		60		
004547		65		
004548		70		
004549		80		
004550	M8	10	13	5.3
004551		12		
004552		16		
004553		20		
004554		25		
004555		30		
004556		35		
004557		40		
004558		45		
004559		50		
004560		55		
004561		60		
004562		65		
004563		70		
004564		80		
004565		90		
004566		100		
004567		110		

Sip. No	d	l	s	k
004568	M10	16	17	6.4
004569		20		
004570		25		
004571		30		
004572		35		
004573		40		
004574		45		
004575		50		
004576		55		
004577		60		
004578		65		
004579		70		
004580		80		
004581		90		
004582		100		
004583		110		
004584		120		
004585	M12	20	19	7.5
004586		25		
004587		30		
004588		35		
004589		40		
004590		45		
004591		50		
004592		55		
004593		60		
004594		65		
004595		70		
004596		80		
004597		90		
004598		100		
004599		110		
004600		120		

Sip. No	d	l	s	k
004601	M16	30	24	10
004602		35		
004603		40		
004604		45		
004605		50		
004606		55		
004607		60		
004608		65		
004609		70		
004610		80		
004611		90		
004612		100		
004613		110		
004614		120		
004615		130		
004616		140		
004617		150		
004618		160		
004619	M20	50	30	12.5
004620		55		
004621		60		
004622		65		
004623		70		
004624		80		
004625		90		
004626		100		
004627		110		
004628		120		
004629		130		
004630		140		
004631		150		
004632		160		
004633		180		
004634		200		

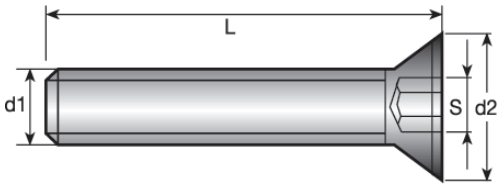
Sip. No	d	l	s	k
004635	M24	50	36	15
004636		55		
004637		60		
004638		65		
004639		70		
004640		80		
004641		90		
004642		100		
004643		110		
004644		120		
004645		130		
004646		140		
004647		150		
004648		160		
004649		180		
004650		200		





Havşa Başlı Civata

Kalite : 10.9



Sip. No	d1	d2	S	L
004651	M3	6	2	10
004652				15
004653				20
004654	M4	8	2,5	10
004655				15
004656				20
004657				25
004658				30
004659	M5	10	3	10
004660				15

Sip. No	d1	d2	S	L
004661	M5	10	3	20
004662				25
004663				30
004664				35
004665				40
004666	M6	12	4	10
004667				15
004668				20
004669				25
004670				30

Sip. No	d1	d2	S	L
004671	M6	12	4	35
004672				40
004673	M8	16	5	10
004674				15
004675				20
004676				25
004677				30
004678				35
004679				40
004680				50

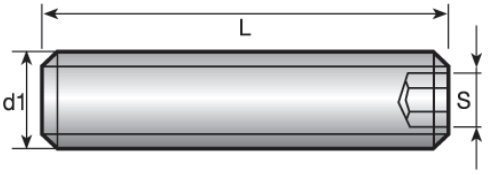
Sip. No	d1	d2	S	L
004681	M10	20	6	15
004682				20
004683				25
004684				30
004685				35
004686				40
004687				50
004688				60
004689	M12	24	8	20
004690				25

Sip. No	d1	d2	S	L
004691	M12	24	8	30
004692				35
004693				40
004694				50
004695				60
004696	M16	30	10	30
004697				35
004698				40
004699				50
004700				60



Setskur Civata

Kalite : 12.9



Sip. No	d1	S	L
004701	M3	1,2	10
004702			15
004703			20
004704	M4	2	10
004705			15
004706			20
004707			25
004708			30
004709	M5	2,5	10
004710			15
004711			20
004712			25
004713			30

Sip. No	d1	S	L
004714	M5	2,5	30
004715			35
004716			40
004717	M6	3	10
004718			15
004719			20
004720			25
004721			30
004722			35
004723			40
004724	M8	4	10
004725			15
004726			20

Sip. No	d1	S	L
004727	M8	4	25
004728			30
004729			35
004730			40
004731			50
004732	M10	5	10
004733			15
004734			20
004735			25
004736			30
004737			35
004738			40
004739			50

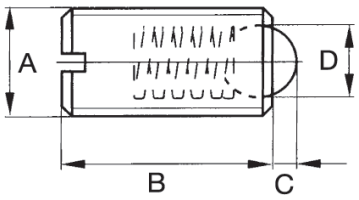
Sip. No	d1	S	L
004740	M10	5	60
004741	M12	6	10
004742			15
004743			20
004744			25
004745			30
004746			35
004747			40
004748			50
004749			60
004750	M14	6	15
004751			20
004752			25

Sip. No	d1	S	L
004753	M14	6	30
004754			35
004755			40
004756			50
004757			60
004758	M16	8	20
004759			25
004760			30
004761			35
004762			40
004763			50
004764			60



Bilyalı Setskur

Malzeme : Özel Alaşımlı Çelik

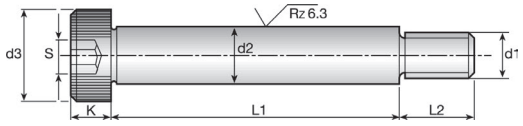


Sip. No	A	B	C	D	N–İlk Basınç Newton	N1–Nihai Basınç Newton
004765	M4	9	0,8	2,5	6	12
004766	M5	12	0,9	3	7	13
004767	M6	14	1	3,5	9	15
004768	M8	16	1,5	5	20	35
004769	M10	19	2	6	25	45
004770	M12	22	2,5	8	35	60
004771	M16	24	3,5	10	65	110



Yay Ayar Civatası

Malzeme : Özel Alaşımlı Çelik
Yüzey : Sertleştirilmiş, Taşlanmış



Sipariş Örneği : d1 x d2 x L1

Sip. No	d1	d2	d3	K	S	L2	L1
004772	M5	6	10	5	3	9,5	10
004773							12
004774							16
004775							20
004776							25
004777							30
004778							35
004779							40
004780							45
004781							50
004782	M6	8	13	6	4	11	10
004783							12
004784							16
004785							20
004786							25
004787							30
004788							35
004789							40
004790							45
004791							50
004792							55
004793							60
004794							65

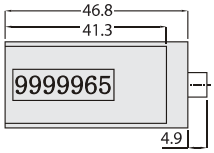
Sip. No	d1	d2	d3	K	S	L2	L1
004795	M6	8	13	6	4	11	70
004796							80
004797							90
004798							100
004799	M8	10	16	7,5	5	13	16
004800							20
004801							25
004802							30
004803							35
004804							40
004805							45
004806							50
004807							55
004808							60
004809							65
004810							70
004811							80
004812							90
004813							100
004814	M10	12	18	9	6	16	16
004815							20
004816							25
004817							30

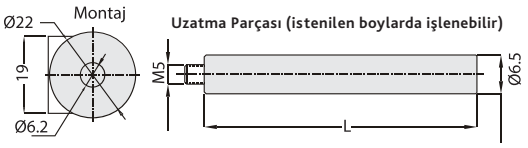
Sip. No	d1	d2	d3	K	S	L2	L1
004818	M10	12	18	9	6	16	35
004819							40
004820							45
004821							50
004822							55
004823							60
004824							65
004825							70
004826							80
004827							90
004828							100
004829							120
004830	M12	16	24	11	8	18	30
004831							35
004832							40
004833							45
004834							50
004835							55
004836							60
004837							65
004838							70
004839							80
004840							90

Sip. No	d1	d2	d3	K	S	L2	L1
004841	M12	16	24	11	8	18	100
004842							120
004843	M16	20	30	14	10	22	40
004844							45
004845							50
004846							55
004847							60
004848							65
004849							70
004850							80
004851							90
004852							100
004853							120
004854	M20	24	35	16	12	27	50
004855							55
004856							60
004857							65
004858							70
004859							80
004860							90
004861							100
004862							120





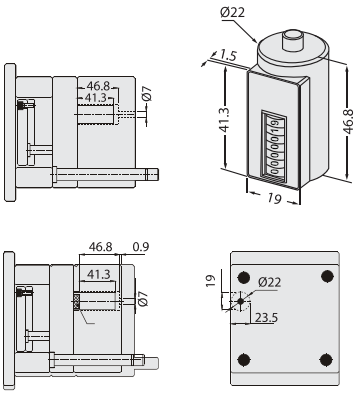




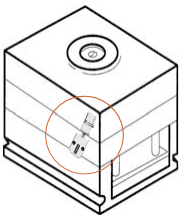
7 Haneli Mekanik Yuvarlak Kalıp Sayacı

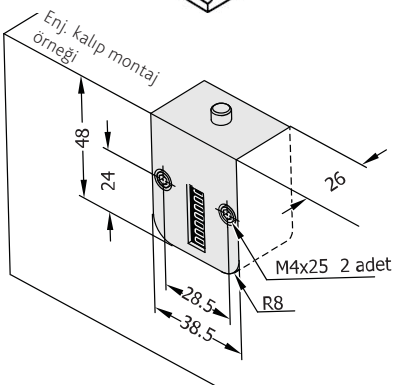
Sip. No	Özellik
004863	7 Haneli Yuvarlak

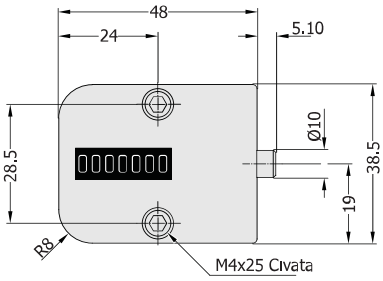
Yuvarlak Üretim Sayar:
Kalıp hamilinin içine alttaki resimlere göre montaj edilebilir (kalıp hamiliniz uygun pozisyondaysa).
Kalıp hamiliniz yüksek / uzun
Pozisyondaysa uzatma parçası ile çalıştırma sağlanılabilir.
İşleme Avantajı:
Yuvarlak üretim sayar kalıba montaj esnasında sadece matkap (22.5 mm) ile montaj yuvası açılır. 42 X 17 pencere oluşturulur. Standart modellere göre uygulamada montaj pratikliği sağlar.
*** Sıfırlanamaz, 7- haneli mekanik sayaç.**
*** 9.999.999 baskıya kadar kayıt tutabilir.**

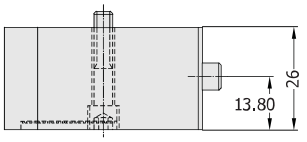












7 Haneli Mekanik Kalıp Sayacı

Sip. No	Özellik
004864	7 Haneli Mekanik

Max. çalışma sıcaklığı 1200°C
Korozyon ve sıçrama korumalı
Montaj civataları M4x25



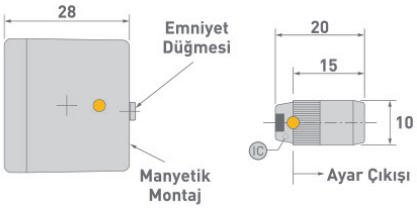
5 Haneli Pres Kalıp Sayacı

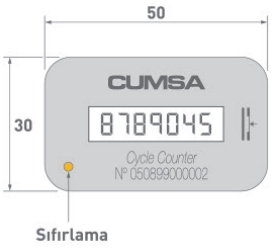
Sip. No	Özellik
004865	5 Haneli



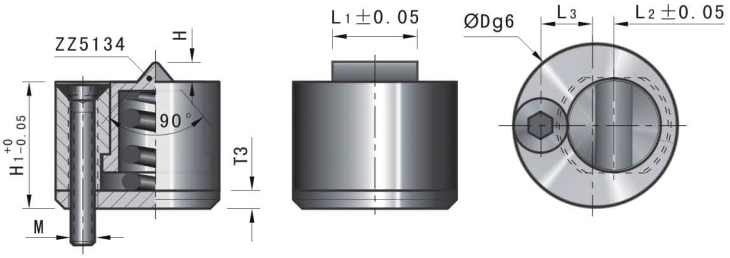
Dijital Enjeksiyon Kalıp Sayacı

Sip. No	Özellik
004866	Dijital Enjeksiyon Kalıp Sayacı







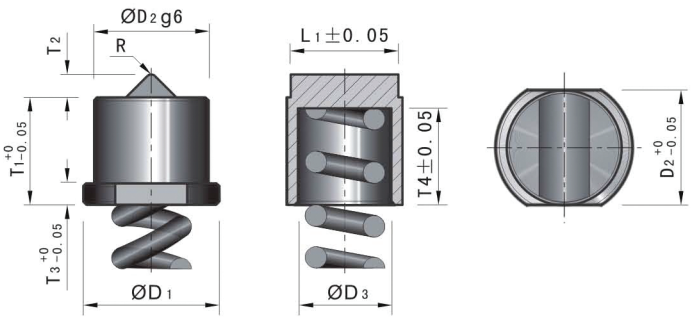


Yuvarlak Maça Tutucu

Malzeme : SKD61
Sertlik : 52 ± 2 HRC
Çalışma Sıcaklığı : Maksimum 100°C

Sip. No	D	L1	L2	L3	H	H1	T3	Montaj Civataları	Ağırlık Kgf
004867	13	6.6	1.4	4.3	1	10	1.6	M2–16	3.5
004868	18	9.6	2	6	1.8	14	2	M3–20	4.5
004869	27	14.4	3	9	2.8	21	3	M4–25	9.5



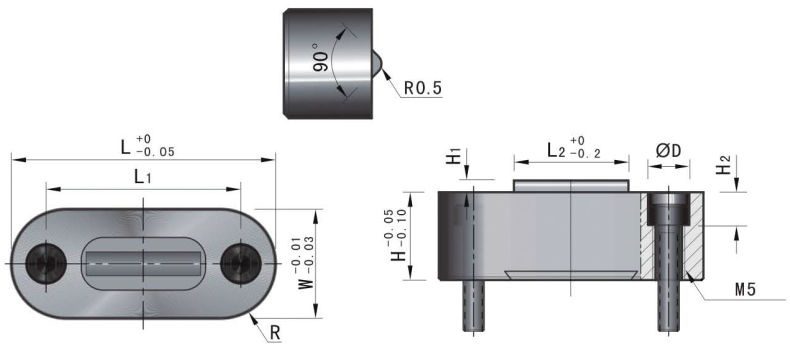


Yuvarlak Maça Tutucu

Malzeme : SKD61
Sertlik : 52 ± 2 HRC
Çalışma Sıcaklığı : Maksimum 100°C

Sip. No	D2	L1	T1	T2	T3	T4	D1	D3	R	Ağırlık Kgf
004870	7	6.6	7	1	1.4	6.3	8.4	5.3	0.35	3.5
004871	10	9.6	10	1.8	2	9	12	8.3	0.50	4.5
004872	15	14.4	15	2.8	3	13.5	18	12.4	0.75	9.5



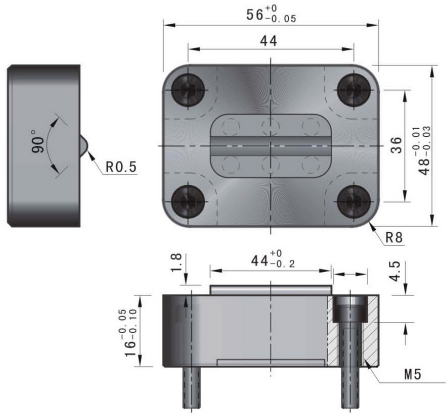


Maça Blok Tutucu

Malzeme : SKD11
Sertlik : 52–54 HRC
Çalışma Sıcaklığı : Maksimum 100°C

Sip. No	D	R	L	L1	L2	W	H	H1	H2	Montaj Civataları	Ağırlık Kgf
004873	8	6	38	28	16.5	14	12	1.8	4.5	M4–16	7
004874	8	8	53	43	32	18	14	1.8	4.5	M4–25	12



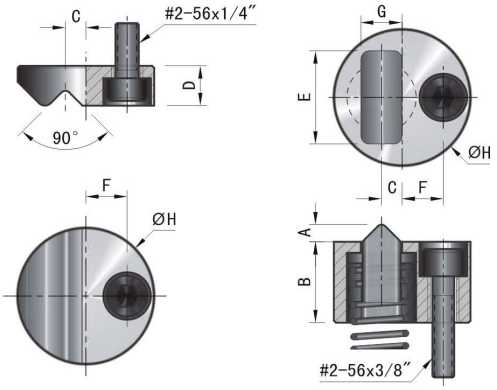


Maça Blok Tutucu

Malzeme : SKD61
Sertlik : 52 ± 2 HRC
Çalışma Sıcaklığı : Maksimum 100°C

Sip. No	Montaj Civataları	Ağırlık Kgf
004875	M4–25	25



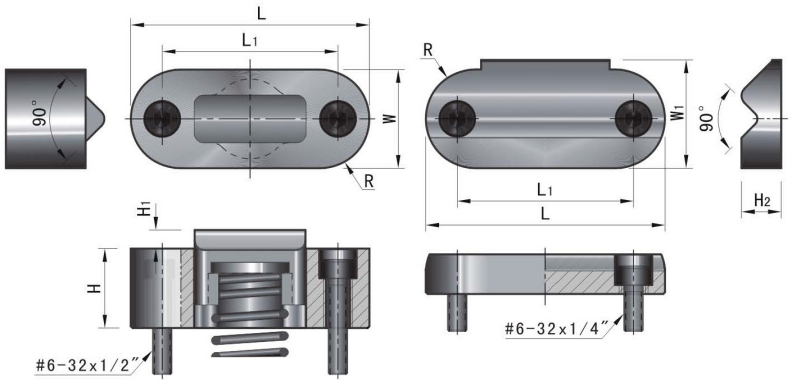


Maça Blok Tutucu

Malzeme : SKD11
Sertlik : 55–62 HRC

Sip. No	A	B	C	D	E	F	G	H	Ağırlık Kgf
004876	1.57	7.49	1.9	3.68	8.64	3.81	3.81	12.65	3.5
	0.062	0.295	0.075	0.145	0.34	0.15	0.15	0.498	





Maça Blok Tutucu

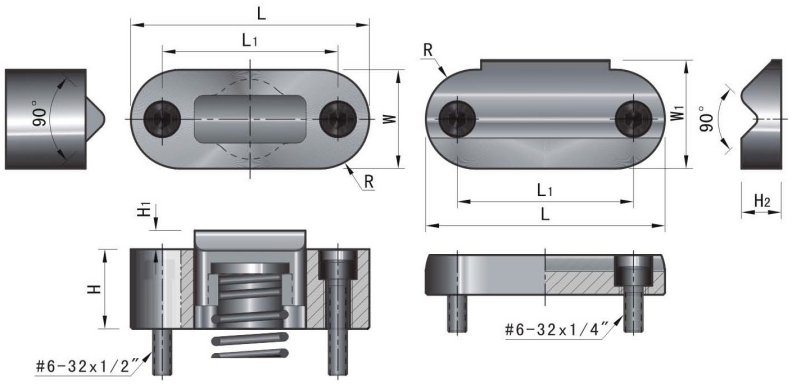
Malzeme : SKD11
Sertlik : 55–62 HRC

Sip. No	L	L1	H	H1	H2	W	W1	R	Montaj Civataları	Ağırlık Kgf
004877	37.95	27.94	12.67	2.97	6.32	15.75	17.27	7.92	6–32–1/2	11.25
	1.494	1.1	0.499	0.117	0.249	0.62	0.68	0.312	6–32–1/4	



Maça Blok Tutucu

Malzeme : SKD11
Sertlik : 55–62 HRC

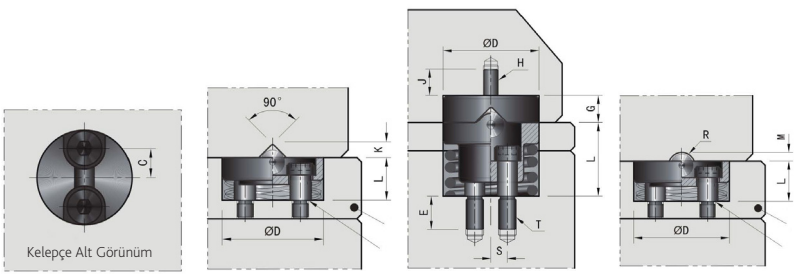


Sip. No	L	L1	H	H1	H2	W	W1	R	Montaj Civataları	Ağırlık Kgf
004878	58.22	41.91	21.84	4.34	9.78	25.3	26.87	12.7	1/4–20–1"	22.5
	2.292	1.65	0.86	0.171	0.385	0.996	1.058	0.498	1/4–20–3/8"	



Maça Tutucu

Malzeme : FDAC
Sertlik : 900 HV~

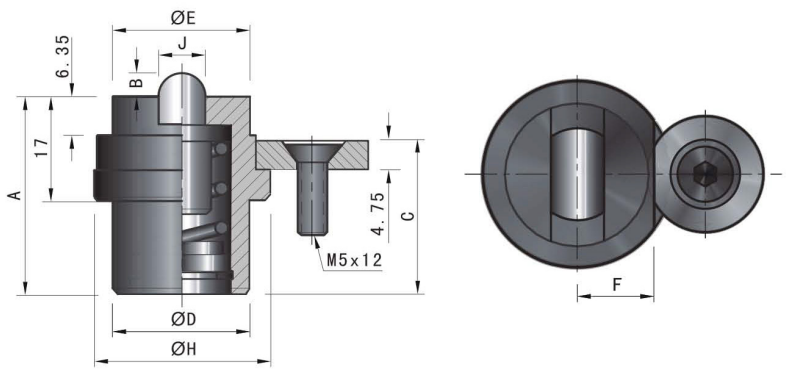


Sip. No	D +0.005 -0	L ±0.001	S ±0.002	T	E	Kaldırma Ağırlığı max.	V-Oluk K	Yuvarlak Kesim R	Yuvarlak Kesim M	Kelepçe Sip. No	G ±0.001	C ±0.002	H	J
004879	19.1	12.7	3.8	M4	4.8	13.5	2 mm	3 mm	0.75 mm		6.35	6.35	M3	6.35
004880	22.3	19.05			6.2	36						7.6		



Yuvarlak Maça Blok Tutucu

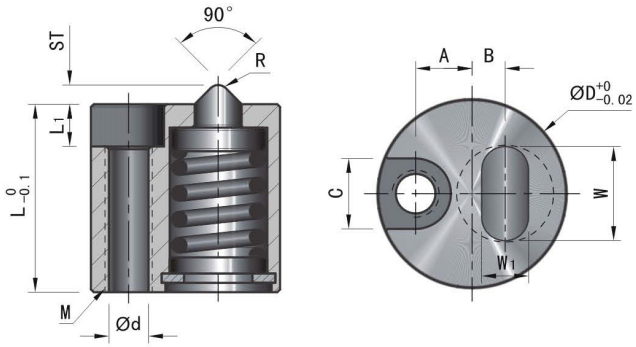
Malzeme : SKD11
Sertlik : 58–62 HRC



Sip. No	A	B	C	D	E	F	H	J	V	K	L	M	N	Ağırlık Kgf
004881	27.43	1.83	20.2	15.75	16	9.52	22	4.78	2.3	15.87	22	24	17	4.5
004882	33.53	3.07	26.3	18.8	19	10.67	25	6.35	3.9	19.05	25	27	18.2	9
004883	32	3.78	24.76	22.1	22	11.86	28	7.92	4.9	22.23	28	30	19.4	18



Yuvarlak Maça Tutucu

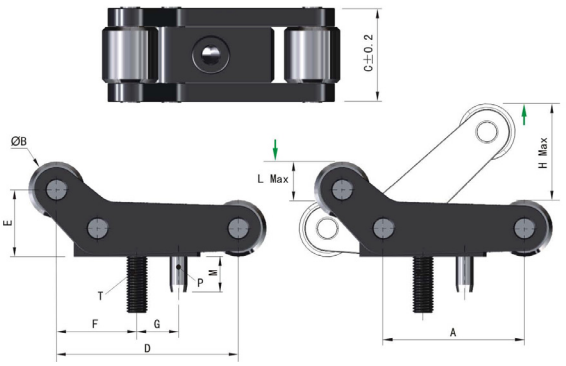


Malzeme : SKD11
Sertlik : 58–62 HRC

Sip. No	D	ST	L	L1	A	B	C	d	W	W1	R	Montaj Civataları	Ağırlık Kgf
004884	16	1.6	15	3.3	5	2.5	6	3.2	8	4	1	M3	28.6
004885													78.8
004886	20	2	20	4.5	6	3.5	7.5	4.3	10	5	1.1	M4	62.9
004887													110



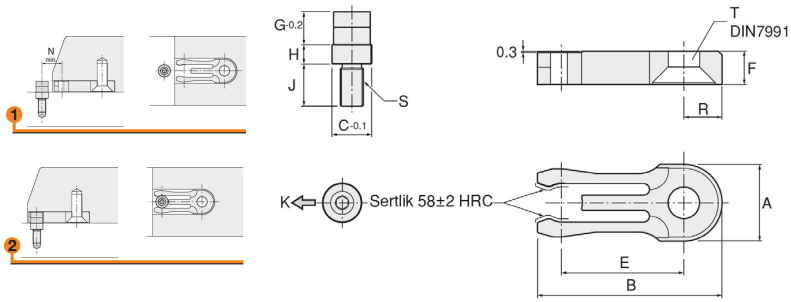
Plaka Hızlandırıcı



Sip. No	A	B	C	D	E	F	G	H maks.	L maks.	M	N	P	T	Kuvvet maks. kgf
004888	20	8	13.2	25.8	9.4	11.4	6	13.6	5.5	5	15	Ø 2.5 x 10	M3 x 12	M3 x 12
004889	25	10	16	32.3	11.8	14.3	7	17	6.8	6	18.5	Ø 3 x 12	M4 x 16	M4 x 16
004890	37.5	15	22	48.5	17.7	21.5	10.5	25.5	10.2	8	25	Ø 4 x 16	M6 x 25	M6 x 25
004891	50	20	29.6	64.6	23.6	28.6	14	34	13.6	10	34	Ø 5 x 20	M8 x 30	M8 x 30



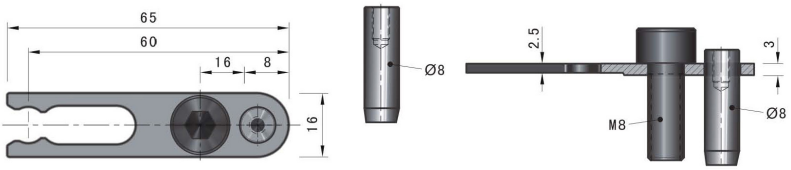
Maça Tutucu



Malzeme : 1.8159
Sertlik : 45 ± 3 HRC

Sip. No	A	B	C	E	F	G	H	J	K	N	R	S	T
004892	16	38	8	25	7.7	7.6	4	10	10 kg.	7	8	M5	M6
004893	20	48	10	32	8.7	8.6	5	11	14 kg.	8	10	M6	M8
004894	24	57	12	37.5	9.7	9.6	6	12	18 kg.	9	12	M8	M10





Modüler Tutucu

Malzeme : SKD61
Sertlik : 52 ± 2 HRC

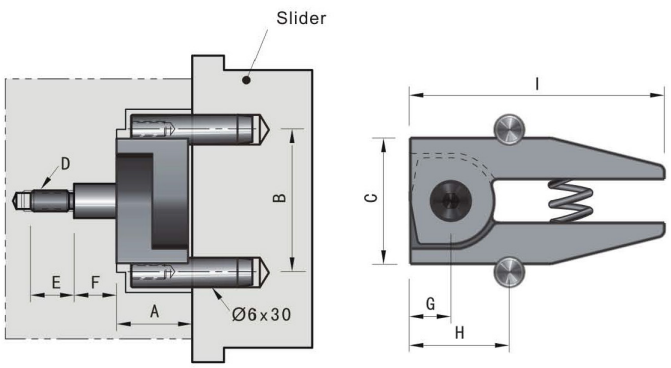
Sip. No	Maks. Kaldırma Ağırlığı			
	W1	W2	W3	W4
004895	7.5 Kgf	15 Kgf	22.5 Kgf	30 Kgf





Maça Tutucu

Malzeme : 4118
Sertlik : 55–62 HRC



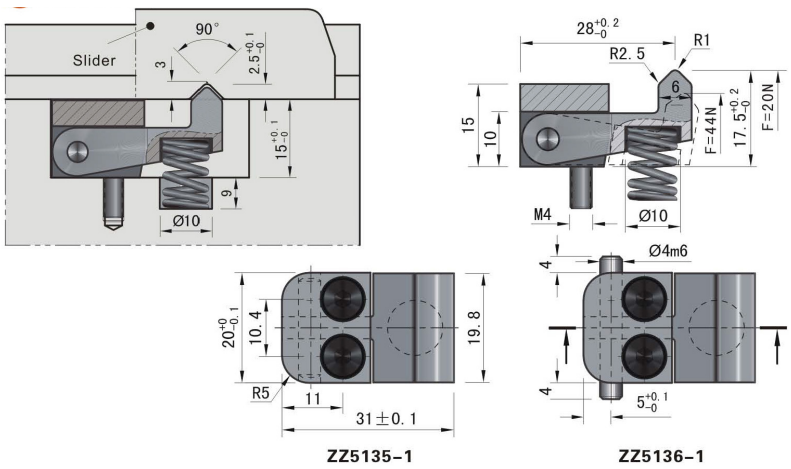
Sip. No	A	B	C	E	F	G	H	I	D	Maksimum Kaldırma Ağırlığı	Pim
004896	10	21.5	18	9.5	5.1	7	17.5	40	M5	Ø 6–30	10
004897	12	25.5	22	11	6.1	7.5	18	43	M6		15
004898	16	31.5	28		3.1	9.5	20.5	50			25



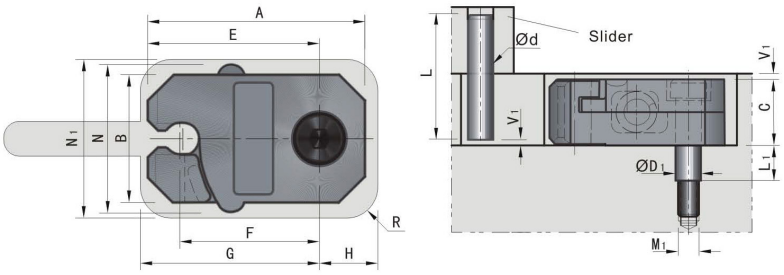
Maça Tutucu

Malzeme : Cr12MoV
Sertlik : 58–62 HRC

Sip. No	Montaj Civataları	Kaldırma Ağırlığı	
		Minimum	Maksimum
004899	M4 x 16	2	4.4
004900			





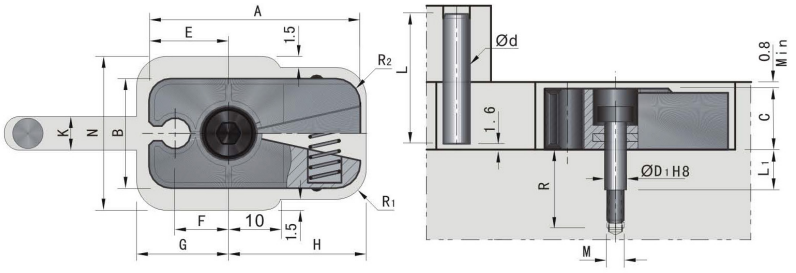


Maça Tutucu

Malzeme : 4118
Sertlik : 55–62 HRC

Sip. No	A	B	C	E	F	N	G	H	N1	R	D1	L1	V1	M1	Maks. Açılma Ağırlığı
004901	38	19	16	31.5	24.89	24	34.5	10	25.5	8	6	8.5	1.5	M5 x 11.5	10
004902	54	32	20	43	34.93	36.5	46	14.5	38	10	8	10.5	1.5	M6 x 14.5	20
004903	86	45	30	67	53.98	49.5	70	22.5	51	12	10	17	1.5	M8 x 18	40



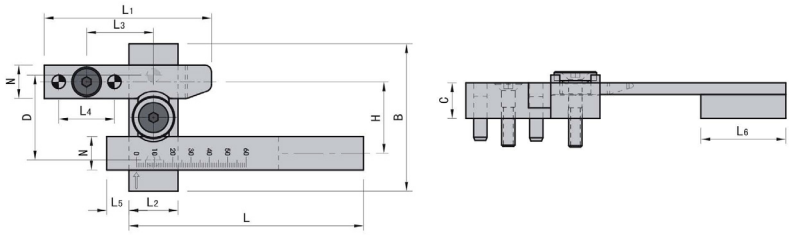


Kilit Mandalı

Malzeme : 4118
Sertlik : 55–62 HRC

Sip. No	A	B	C	E	F	G	H	N	K	D1	L1	R	R1	R2	M	Ağırlık Kgf
004904	38	19	16	16	9.1	19	26	25	8	6	6	15.5	8	5	M5	10
004905	54	32	20	21	12.7	24	36	36	10	8	8.5	20.5	10	6	M6	20
004906	86	45	30	53	20.3	36	56	56	12	10	10	25	13	10	M8	40

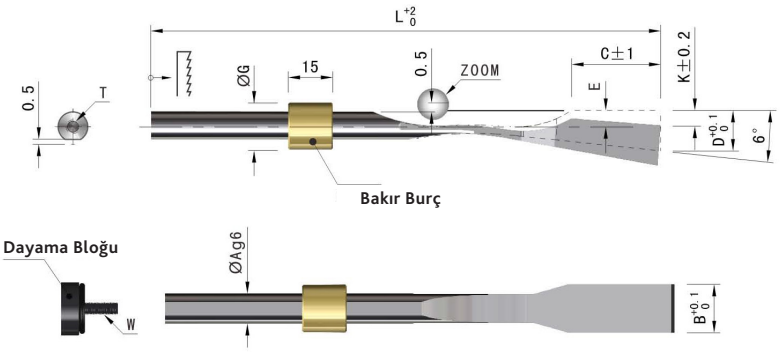




Kademeli Açma Ünitesi

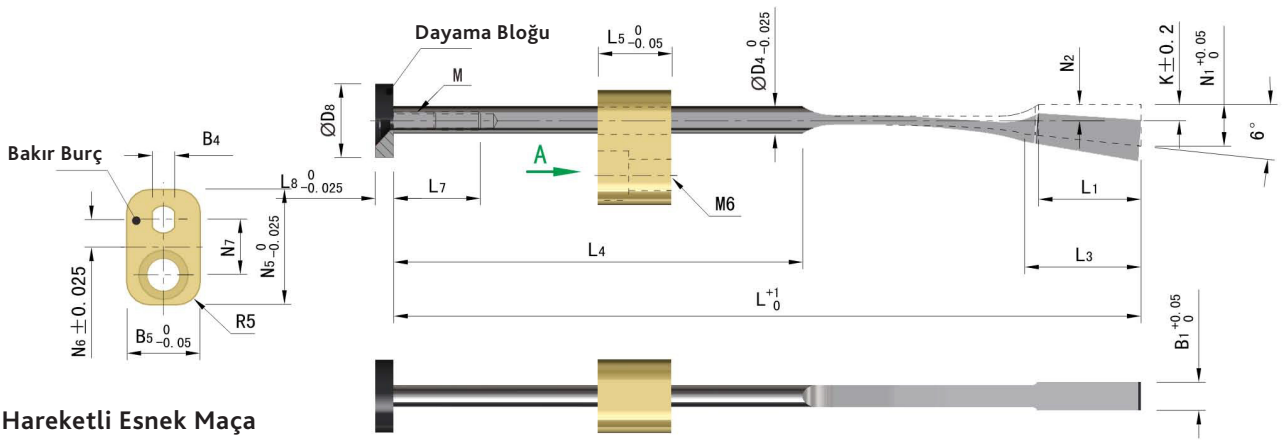
Sip. No	B	C	D	H	H1 min.	L	L1	L2	L3	L4	L5	L6	N	Pos			
														5	7	8	9
004907	66	16	38	32	10	105	75	22	30	25	10	38	15	Ø6 x 20	Ø6 x 30	Ø6 x 30	Ø6 x 35
004908	86	19	46	42.7	11.5	153	102	36	43	32	12	50	20	Ø8 x 24	Ø8 x 36	Ø8 x 36	Ø8 x 40
004909	106	24	56	50.2	14	190	124	42	51	40	15	60	24.5	Ø10 x 30	Ø10 x 40	Ø10 x 40	Ø10 x 45





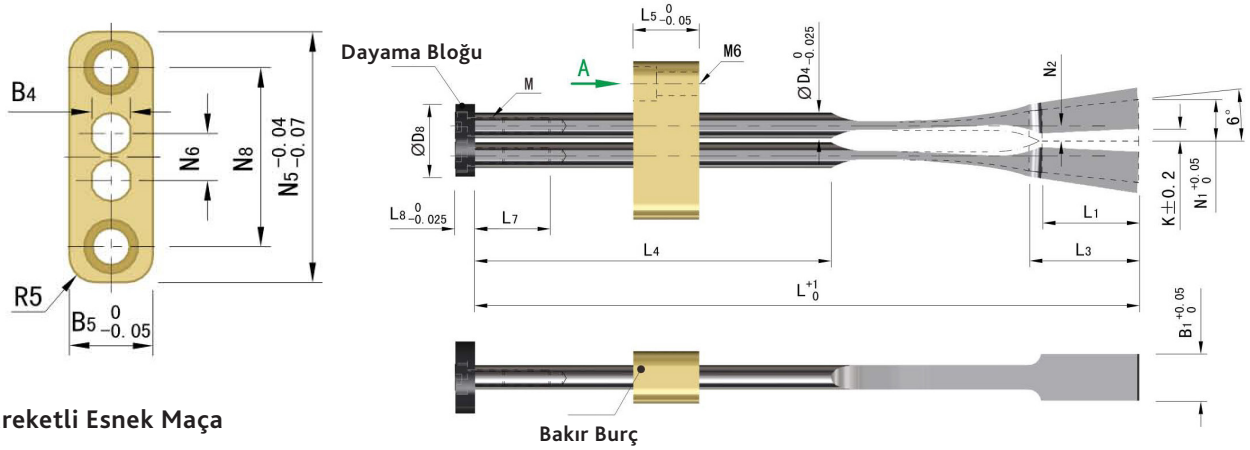
Hareketli Esnek Maça

Sip. No	A	B	C	D	E	G	K	L	M	N	R	U	V	T	W
004910	6	6.2	22	9	3.5	-	3.5	125	16	18	1.25	12	5	M4 x 36	M4 x 16
004911			30	10		12	4.5	175	20	26					
004912		8.2	22	9		-	3.5	125	16	18					
004913			30	10		12	4.5	175	20	26					
004914	8	10.2	25	11.5	4.5	-		140	18	21	2	14	6	M5 x 36	M5 x 16
004915															
004916			30	11.2		12		175	20	26					
004917		12.2	25	11.5		-		140	18	21					
004918			30	11.2		12		175	20	26					
004919	10	14.2		13.6	5.5	16	5.5				2.5	18	8	M6 x 36	M6 x 16
004920		16.2													
004921		18.2													



Hareketli Esnek Maça

Sip. No	B4	B5	D4	D8	N5	N6	N7	M	B1	N1	L	L1	L3	L4	L5	L7	L8	N2	K
004922	4.83	16	5.94	16	25	6	12	M4	6.2	9	162	22	24.3	88	16	19	4	3.5	3.5
004923	5.08		6.35						8.2										
004924	7.37		7.92					M5	10.2	11.5	200	26	30	111				4.5	4.5
004925									12.2										
004926									14.2	12.5		30	33.1	107					
004927									16.2										

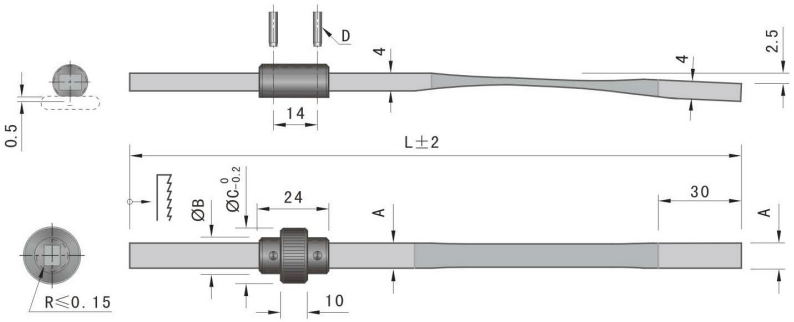


Hareketli Esnek Maça

Sip. No	B4	B5	D4	D8	N7	N8	K	M	B1	N1	L	L1	L3	L4	L5	L7	L8	N2	L2	N5	N6
004928	4.83	16	5.94	20	13	32.3	3.5	M4	6.2	9	162	22	24.3	88	20	19	6	3.5	12.5	45	7
004929	7.37		7.92	22	17	34.3	4.5	M5	12.2	11.5	200	26	30.0	111				4.5	16.5	48	9
004930									14.2	12.5		30	33.1	107					20		
004931									16.2												



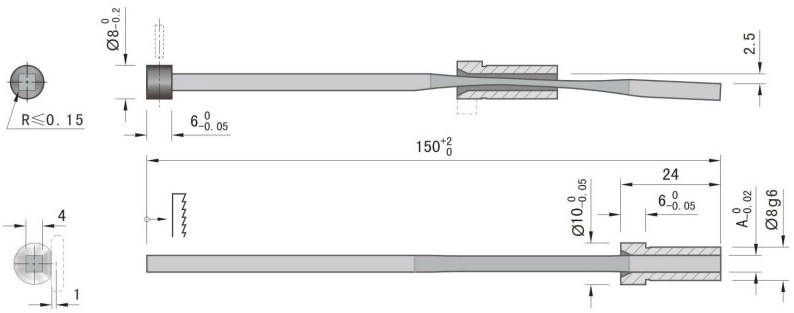
Esnek Maça



Sip. No	A	Ø B	C	Ø D	L
004932	6	M10 x 0.75	16	Ø 3 x 8	150
004933	8	M12 x 0.75	18	Ø 4 x 10	
004934	10	M14 x 0.75	20	Ø 4 x 12	200
004935	12	M16 x 0.75	22	Ø 4 x 14	



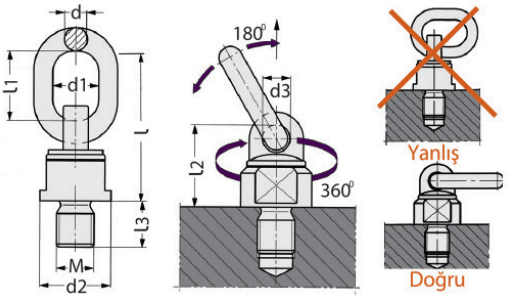
Esnek Maça



Sip. No	A
004936	4
004937	5

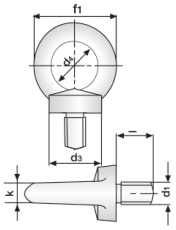


Fırdöndülü Döner Mapa



Sip. No	M x Diş	d	d1	d2	d3	l	l1	l2	l3	Dik p 0º	Yan p 90º	İki Açılı p 45º	İki Açılı p 60º	Dört Açılı p 45º	Dört Açılı p 60º	Ağırlık
004938	M8 x 1.25	8	29	36	11	86	32	39	12	0.4	0.2	0.3	0.2	0.5	0.3	0.27 gr
004939	M10 x 1.50	8	29	36	11	86	32	39	19	0.5	0.3	0.4	0.3	0.6	0.4	0.35 gr
004940	M12 x 1.75	12	35	60	15	150	58	6	20	1.0	0.5	0.7	0.5	1.1	0.8	0.60 gr
004941	M16 x 2.0	12	35	60	15	150	58	67	32	1.9	1.0	1.4	1.0	2.1	1.5	0.80 gr
004942	M20 x 2.50	19	40	70	22	179	67	78	38	2.1	1.1	1.5	1.1	2.4	1.6	1.80 gr
004943	M24 x 3.0	19	40	70	22	179	67	78	38	3.2	1.6	2.3	1.6	3.5	2.3	2.21 gr
004944	M30 x 3.50	22	52	80	25	228	95	93	50	5.0	2.5	3.6	2.5	5.6	3.5	3.90 gr
004945	M36 x 4.0	22	52	80	25	228	95	93	50	8.0	4.0	5.5	4.0	10	6.0	5.50 gr
004946	M42 x 4.50	25	65	93	28	266	118	104	63	10	5.0	7.0	5.0	12	7.0	6.10 gr
004947	M48 x 5.0	25	65	93	28	266	104	104	70	11	5.5	8.0	5.5	14	8.0	6.10 gr
004948	M56 x 4.0	32	70	105	35	310	120	135	95	14	7.2	10	7.3	18	10	11 kg
004949	M64 x 6.0	32	70	105	35	310	120	135	95	15	7.5	11	7.5	20	11	13 kg

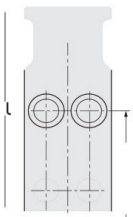


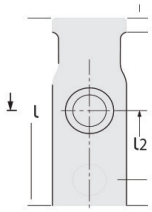


Kaldırma Mapaları

Sip. No	d1 mm	k mm	l mm	d4 mm	f1 mm	d3 mm	Ağırlık g	Yük Kaldırma Kapasitesi
004950	M 10	10	18	25	45	25	110	230 kg
004951	M 12	12	22	30	54	30	195	340 kg
004952	M 14	12	22	30	54	30	205	460 kg
004953	M 16	14	28	35	63	35	325	700 kg
004954	M 18	14	28	35	63	35	335	850 kg
004955	M 20	16	30	40	72	40	505	1200 kg
004956	M 24	20	38	50	90	50	1020	1800 kg
004957	M 30	24	45	60	108	65	1850	3600 kg
004958	M 36	28	55	70	126	75	2700	5100 kg
004959	M 42	32	65	80	135	85	4030	7000 kg



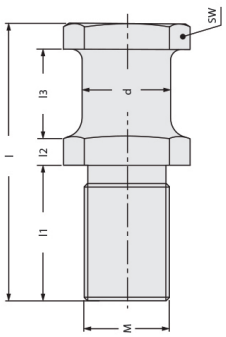




Taşıma Braketi

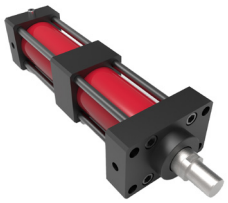
Sip. No	d	w	l	l1	l2	l3	l4	a	Form	Civata	Max. Yük. (Ton)
004960	16	20	80	10	34	20	6	-	A	M8 x 25	0.32
004961	20	25	90	10	37	25	8	-	A	M10 x 30	0.63
004962	25	35	100	12	38	30	8	-	A	M12 x 40	1.25
004963	32	40	120	16	46	32	10	-	A	M16 x 45	2.00
004964	40	50	140	18	54	40	10	-	A	M20 x 60	3.20
004965	50	60	160	22	59	45	12	-	A	M24 x 70	5.00
004966	63	80	200	20	78	50	12	40	B	M20 x 90	8.00
004967	80	100	250	25	100	65	15	50	B	M24 x 120	12.50
004968	100	120	300	30	125	80	15	60	B	M30 x 140	20.00





Taşıma Braketi Vidalı

Sip. No	M	d	l	l1	l2	l3	SW	Max. Yük. (Ton)
004969	M16	16	58	28	5	20	24	0.25
004970	M20	20	68	34	6	22	30	0.50
004971	M24	25	78	38	8	25	36	1.00
004972	M30	32	95	45	10	32	41	1.50
004973	M36	40	118	56	12	40	50	2.50



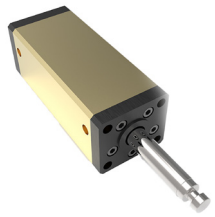


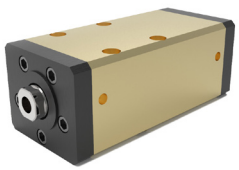
Boru Gövdeli Hidrolik Silindir

OPT TR205

Sip. No
004974

Teknik Özellikler
- Maksimum çalışma basıncı 300bar
- Homlanmış ve parlatılmış silindir borusu
- Sert krom kaplanmış ve taşlanmış silindir mili
- Ø 16–500 mm arası piston çapı
- 0–3000 mm çalışma mesafesi
- Bir çok bağlantı ve yağ giriş seçenekleri
- Switchler ile pozisyon kontrolü





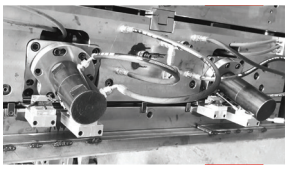
Mono Blok Hidrolik Silindir

OPT MN205

Sip. No
004975

Teknik Özellikler
- Maksimum çalışma basıncı 380bar
- Yüksek alaşımlı ve sert eloksal kaplı alüminyum gövde
- Sert krom kaplanmış ve taşlanmış silindir mili
- Ø 16–200 mm arası piston çapı
- 0–500 mm çalışma mesafesi
- Bir çok bağlantı ve yağ giriş seçenekleri
- Switchler ile pozisyon kontrolü



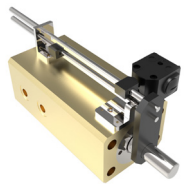


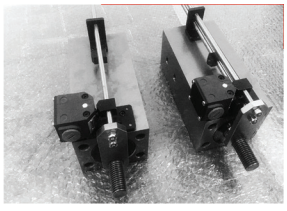
Kilitli Hidrolik Silindir

OPT SL209

Sip. No
004976

Teknik Özellikler
- Çalışma basıncı 60–280bar
- Ekstra sertleştirilmiş silindir gövdesi ve kilitler
- Sertleştirilmiş krom kaplanmış ve taşlanmış silindir mili
- Ø 32–120 mm arası piston çapı
- 0–160 mm çalışma mesafesi
- Flanş ile bağlantı sayesinde kolay ayar
- Enjeksiyon süresince maça tutma, Switchler ile pozisyon kontrolü



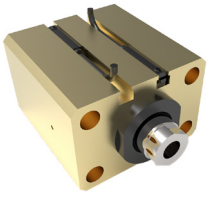


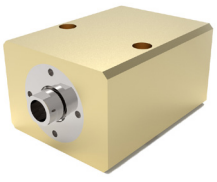
Yüksek Güçlü Hidrolik Silindir

OPT HD212

Sip. No
004977

Teknik Özellikler
- Maksimum çalışma basıncı 700bar
- Oksidasyon yapılmış çelik gövde
- Sert krom kaplanmış ve taşlanmış silindir mili
- Ø 16–200 mm arası piston çapı
- 0–500 mm çalışma mesafesi
- Bir çok bağlantı ve yağ giriş seçenekleri
- Mekanik switchler ile pozisyon kontrolü





Kompakt Hidrolik Silindir

OPT CT210

Sip. No
004978

Teknik Özellikler
- Maksimum çalışma basıncı 300bar
- Yüksek alaşımlı ve sert eloksal kaplı alüminyum gövde
- Küçültülmüş silindir gövde ölçüleri
- Sert krom kaplanmış ve taşlanmış silindir mili
- Ø 16–200 mm arası piston çapı
- 0–500 mm çalışma mesafesi
- Bir çok bağlantı ve yağ giriş seçenekleri, mekanik switchler ile pozisyon kontrolü





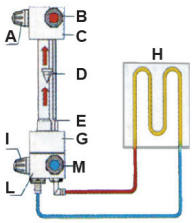
Kartuş Hidrolik Silindir

OPT CH2013

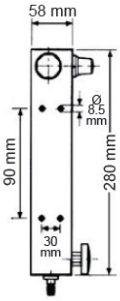
Sip. No
004979

Teknik Özellikler
- Maksimum çalışma basıncı 380bar
- Kompakt parça ölçüleri
- Doğrudan çelik gövdesinde çalışma
- Sert krom kaplanmış ve taşlanmış silindir mili
- Ø 16–80 mm arası piston çapı
- 0–100 mm çalışma mesafesi
- Çelik gövdesinden doğrudan port girişleri



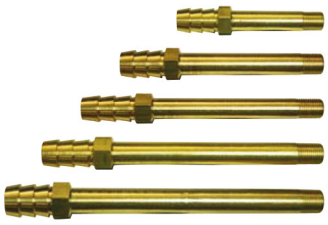


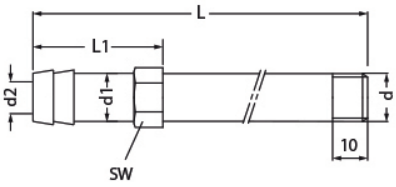
A : Kontrol Vanası
B : Su Çıkışı
C : Akış Manifoldu
D : Şamandıra
E : Kalibrasyonlu Şeffaf Tip
G : Alıcı Bölüm
H : Kalıp Dağıtım
İ : Kapatma Vanası
L : Besleme Manifoldu
M : Su Girişi



Sip. No	Tüp Sayısı	Çıkış Devre	Boyut A
004980	4'lü	Rekor Uç 1/4" 10 mm Hortum	240
004981	6'lı		360
004982	8'li		480
004983	10'lu		600
004984	12'li		720

Sirkülasyon Regülatörü





Hortum Girişli Rekorlar

Metrik Diş

Sip. No	(Valfsiz) d	d1	d2	L	L1	SW
004985	M8x1.25	12	7	40	28	13
004986	M8-60x1.25			60		
004987	M8-80x1.25			80		
004988	M8-100x1.25			100		
004989	M8-120x1.25			120		
004990	M8-150x1.25			150		
004991	M10x1.5			40		
004992	M10-60x1.5			60		
004993	M10-80x1.5			80		
004994	M10-100x1.5			100		
004995	M10-120x1.5			120		
004996	M10-150x1.5			150		
004997	M12x1.75			40		
004998	M12-60x1.75			60		
004999	M12-80x1.75			80		

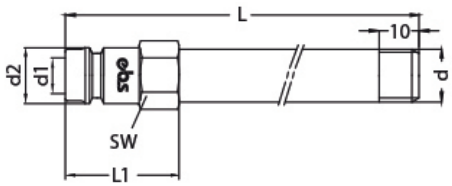
Metrik Diş

Sip. No	(Valfsiz) d	d1	d2	L	L1	SW
005000	M12-100x1.75	12	7	100	28	13
005001	M12-120x1.75			120		
005002	M12-150x1.75			150		
005003	M14			40		14
005004	M14-60			60		
005005	M14-80			80		
005006	M14-100			100		
005007	M14-120			120		
005008	M14-150			150		
005009	M16			40		16
005010	M16-60			60		
005011	M16-80			80		
005012	M16-100			100		
005013	M16-120			120		
005014	M16-150			150		

Gaz Diş

Sip. No	(Valfsiz) d	d1	d2	L	L1	SW
005015	G 1/8"	12	7	40	28	13
005016	G 1/8"			60		
005017	G 1/8"			80		
005018	G 1/8"			100		
005019	G 1/8"			120		
005020	G 1/8"			150		
005021	G 1/4"			40		14
005022	G 1/4"			60		
005023	G 1/4"			80		
005024	G 1/4"			100		
005025	G 1/4"			120		
005026	G 1/4"			150		
005027	G 3/8"			40		17
005028	G 3/8"			60		
005029	G 3/8"			80		
005030	G 3/8"			100		
005031	G 3/8"			120		
005032	G 3/8"			150		





Otomatik Girişli Rekorlar

Metrik Diş

Sip. No	(Valfsiz) d	d1	d2	SW	L	L1
005033	M8 x 1.25	9	13	14	60	20
005034	M8 x 1.25				80	
005035	M8 x 1.25				100	
005036	M8 x 1.25				120	
005037	M8 x 1.25				150	
005038	M10 x 1.5				60	
005039	M10 x 1.5				80	
005040	M10 x 1.5				100	
005041	M10 x 1.5				120	
005042	M10 x 1.5				150	
005043	M12 x 1.75				60	
005044	M12 x 1.75				80	
005045	M12 x 1.75				100	

Metrik Diş

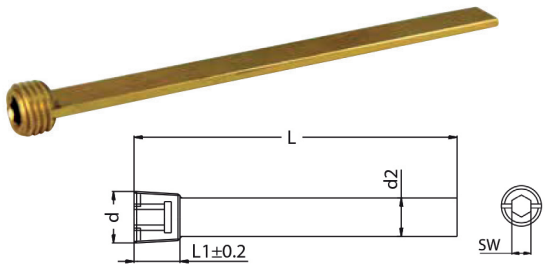
Sip. No	(Valfsiz) d	d1	d2	SW	L	L1
005046	M12 x 1.75	9	13	14	120	20
005047	M12 x 1.75				150	
005048	M14 x 2				60	
005049	M14 x 2				80	
005050	M14 x 2				100	
005051	M14 x 2				120	
005052	M14 x 2				150	
005053	M16 x 2				60	
005054	M16 x 2				80	
005055	M16 x 2				100	
005056	M16 x 2				120	
005057	M16 x 2				150	

Gaz Diş

Sip. No	(Valfsiz) d	d1	d2	SW	L	L1
005058	BSP 1/8"	9	13	14	29	10
005059	BSP 1/4"			14	29	
005060	BSP 3/8"			17	29	
005061	BSP 1/2"			21	29	
005062	M8 x 1.25			14	29	
005063	M10 x 1.5			14	29	
005064	M10 x 1.0			14	29	
005065	M12 x 1.75			14	29	
005066	M14 x 1.5			21	29	
005067	M16 x 1.5			21	29	
005068	BSP 1/8"			14	60	20
005069	BSP 1/8"			14	80	
005070	BSP 1/8"			14	100	

Gaz Diş

Sip. No	(Valfsiz) d	d1	d2	SW	L	L1
005071	BSP 1/8"	9	13	14	120	20
005072	BSP 1/8"			14	150	
005073	BSP 1/4"			14	60	
005074	BSP 1/4"			14	80	
005075	BSP 1/4"			14	100	
005076	BSP 1/4"			14	120	
005077	BSP 1/4"			14	150	
005078	BSP 3/8"			17	60	
005079	BSP 3/8"			17	80	
005080	BSP 3/8"			17	100	
005081	BSP 3/8"			17	120	
005082	BSP 3/8"			17	150	

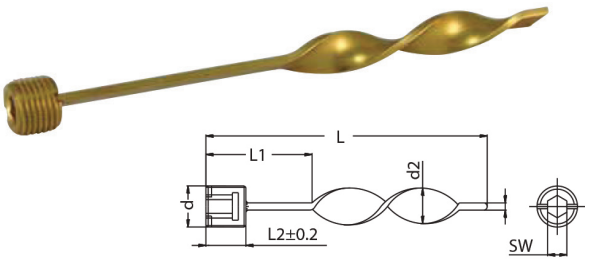


Separatör

Metrik Diş

Sip. No	d	SW	d1	d2	L	L1	k
005083	M8x0.75	4	6	5.8	100	8	1.6
005084	M8x0.75	4	6	5.8	200	8	1.6
005085	M10x1.0	5	8	7.8	100	8	1.6
005086	M10x1.5	5	8	7.8	125	8	1.6
005087	M10x1.0	5	8	7.8	200	8	1.6
005088	M10x1.0	5	8	7.8	300	8	1.6
005089	M12x1.5	6	10	9.8	125	8	2.0
005090	M12x1.5	6	10	9.8	250	8	2.0

Sip. No	d	SW	d1	d2	L	L1	k
005091	M16x1.5	8	14	13.8	150	10	2.4
005092	M16x1.5	8	14	13.8	300	10	2.4
005093	M20x1.5	10	18	17.8	150	10	2.4
005094	M20x1.5	10	18	17.8	200	10	2.4
005095	M20x1.5	10	18	17.8	300	10	2.4
005096	M20x1.5	10	18	17.8	400	10	2.4
005097	M24x2.0	10	20	19.8	150	12	2.4
005098	M24x2.0	10	20	19.8	300	12	2.4

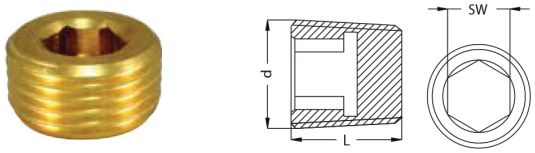


Separatör

Metrik Diş

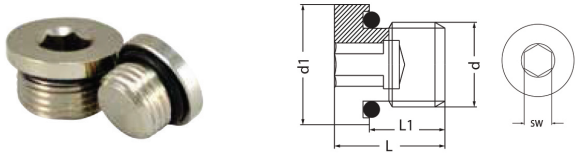
Sip. No	d	SW	d1	d2	L	L1	L2	k
005099	M8x0.75	4	6	5.8	100	50	8	1.6
005100	M8x0.75	4	6	5.8	200	100	8	1.6
005101	M8x0.75	4	6	5.8	300	150	8	1.6
005102	M10x1.0	5	8	7.8	100	50	8	1.6
005103	M10x1.5	5	8	7.8	100	50	8	1.6
005104	M10x1.0	5	8	7.8	200	100	8	1.6
005105	M10x1.0	5	8	7.8	300	150	8	1.6
005106	M12x1.5	6	10	9.8	125	50	8	2.0

Sip. No	d	SW	d1	d2	L	L1	L2	k
005107	M12x1.5	6	10	9.8	250	100	8	2.0
005108	M16x1.5	8	14	13.8	150	50	10	2.4
005109	M16x1.5	8	14	13.8	300	100	10	2.4
005110	M20x1.5	10	18	17.8	150	50	10	2.4
005111	M20x1.5	10	18	17.8	200	100	10	2.4
005112	M20x1.5	10	18	17.8	300	50	10	2.4
005113	M20x1.5	10	18	17.8	400	100	10	2.4
005114	M24x2.0	10	20	19.8	150	50	12	2.4
005115	M24x2.0	10	20	19.8	300	100	12	2.4



Tıkaç

Sip. No	d	L	SW
005116	BSP 1/8"	8	5
005117	BSP 1/4"	10	7
005118	BSP 3/8"	10	8
005119	BSP 1/2"	10	10
005120	BSP 3/4"	12	12
005121	BSP 1"	19	17
005122	BSP 1.1/4"	22	22
005123	BSP 1.1/2"	22	24



Tıkaç

Sip. No	d	d1	L	L1	SW
005124	M10x1	14	10	7	5
005125	M12x1.5	17	11	8	6
005126	M14x1.5	19	12	9	8
005127	M16x1.5	21	12	9.5	10
005128	M22x1.5	27	13	11.5	14
005129	M24x1.5	30	15	11.5	14



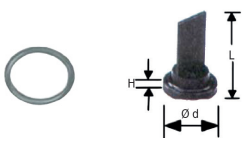
Viton Oringli Tıkaç

Viton Oring Sip. No	NBR Oring Sip. No	d	L
005130		6	10
005131		8	10
005132		10	10
005133		12	10
005134		14	12
005135		16	12
005136		20	12



Plastik Soğutma Spirali

d	L			
	96	196	296	396
8	●	●	●	
10	●	●	●	
12	●	●	●	
16	●	●	●	
20	●	●	●	●
25	●	●	●	●



Plastik Soğutma Spirali

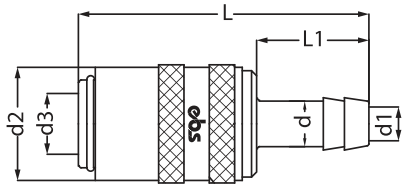
d	H	L			
		25	30	35	40
8	4.4	●	●	●	●
10		●	●	●	●
12		●	●	●	●
16		●	●	●	●
20		●	●	●	●
25		●	●	●	●



Plastik Soğutma Spirali

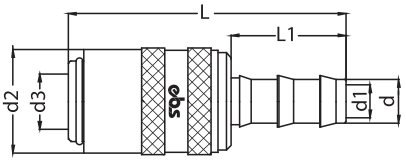
d	H	L			
		100	200	300	400
8	4.4	●	●	●	
10		●	●	●	
12		●	●	●	
16		●	●	●	
20		●	●	●	●
25		●	●	●	●

Hortum Gövde



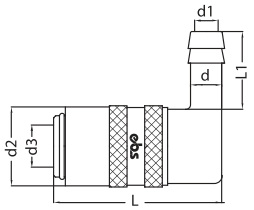
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	d3	L	L1
005137	005138	10	7.5	23	13	59	23
005139	005140	13	10	23	13	59	23

Kelepçesiz Hortum Gövde



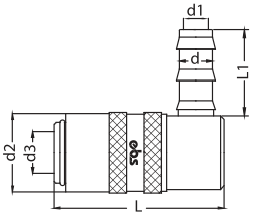
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	d3	L	L1
005141	005142	10	7.5	23	13	59	23
005143	005144	13	10	23	13	59	23

90° Hortum Gövde



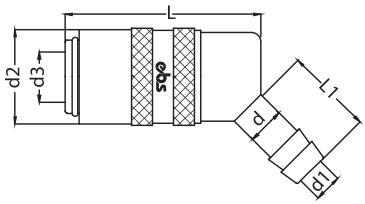
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	d3	L	L1
005145	005146	10	7.5	23	13	59	23
005147	005148	13	10	23	13	59	23

90° Kelepçesiz Hortum Gövde



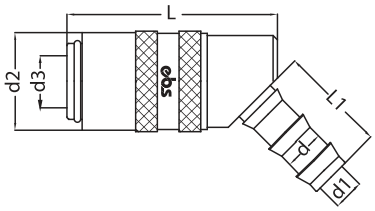
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	d3	L	L1
005149	005150	10	7.5	23	13	59	23
005151	005152	13	10	23	13	59	23

45° Hortum Gövde



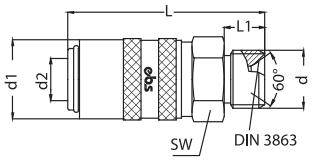
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	d3	L	L1
005153	005154	10	7.5	23	13	59	23
005155	005156	13	10	23	13	59	23

45° Kelepçesiz Hortum Gövde



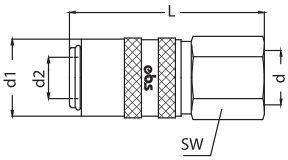
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	d3	L	L1
005157	005158	10	7.5	23	13	59	23
005159	005160	13	10	23	13	59	23

Erkek Gövde



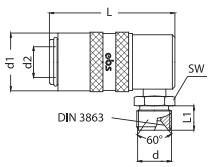
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	L	L1	SW
005161	005162	BSP 1/4"	23	13	52	9	21
005163	005164	BSP 3/8"	23	13	52	9	21
005165	005166	BSP 1/2"	23	13	52	9	21
005167	005168	M16x1.5	23	13	52	10	21

Dişi Gövde



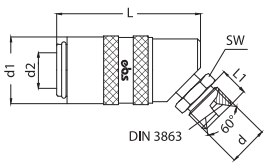
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	L	SW
005169	005170	BSP 1/4"	23	13	52	21
005171	005172	BSP 3/8"	23	13	52	21
005173	005174	BSP 1/2"	23	13	52	24
005175	005176	M16x1.5	23	13	52	21

90° Erkek Gövde



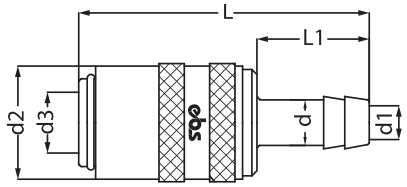
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	L	L1	SW
005177	005178	BSP 1/4"	23	13	52	9	15
005179	005180	BSP 3/8"	23	13	52	9	19
005181	005182	BSP 1/2"	23	13	52	9	21
005183	005184	M16x1.5	23	13	52	10	19

45° Erkek Gövde



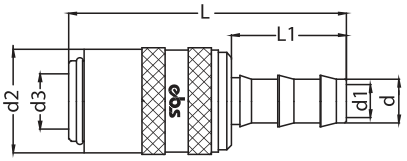
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	L	L1	SW
005185	005186	BSP 1/4"	23	13	52	9	15
005187	005188	BSP 3/8"	23	13	52	9	19
005189	005190	BSP 1/2"	23	13	52	9	21
005191	005192	M16x1.5	23	13	52	10	19

Hortum Gövde



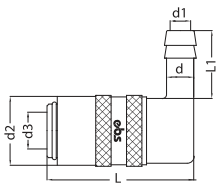
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	d3	L	L1
005193	005194	6	4.5	18	9	47.5	17.5
005195	005196	8	6	18	9	47.5	17.5
005197	005198	10	7	18	9	47.5	17.5

Kelepçesiz Hortum Gövde



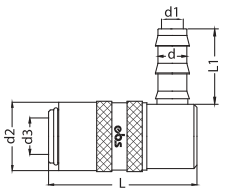
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	d3	L	L1
005199	005200	6	4.5	18	9	48	18
005201	005202	8	6	18	9	48	18
005203	005204	10	7	18	9	48	18

90° Hortum Gövde



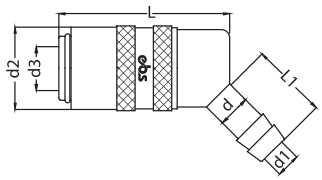
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	d3	L	L1
005205	005206	6	4.5	18	9	42	26
005207	005208	8	6	18	9	42	26
005209	005210	10	7	18	9	42	26

90° Kelepçesiz Hortum Gövde



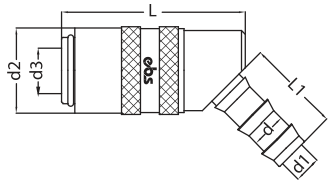
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	d3	L	L1
005211	005212	6	4.5	18	9	42	26
005213	005214	8	6	18	9	42	26
005215	005216	10	7	18	9	42	26

45° Hortum Gövde



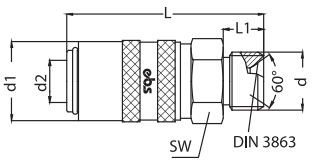
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	d3	L	L1
005217	005218	6	4.5	18	9	42	26
005219	005220	8	6	18	9	42	26
005221	005222	10	7	18	9	42	26

45° Kelepçesiz Hortum Gövde



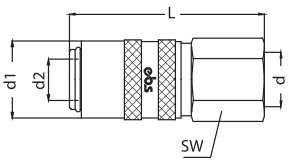
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	d3	L	L1
005223	005224	6	4.5	18	9	42	26
005225	005226	8	6	18	9	42	26
005227	005228	10	7	18	9	42	26

Erkek Gövde



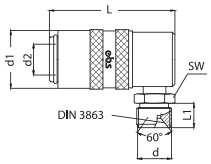
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	L	L1	SW
005229	005230	BSP 1/4"	18	9	47.5	9	17
005231	005232	BSP 3/8"	18	9	47.5	9	17
005233	005234	M10x1.0	18	9	47.5	9	17
005235	005236	M16x1.5	18	9	47.5	9	17

Dişi Gövde



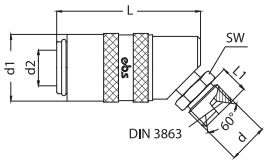
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	L	L1	SW
005237	005238	BSP 1/4"	18	9	47.5	9	17
005239	005240	BSP 3/8"	18	9	47.5	9	21
005241	005242	M10x1.0	18	9	47.5	9	17
005243	005244	M14x1.5	18	9	47.5	9	21

90° Erkek Gövde



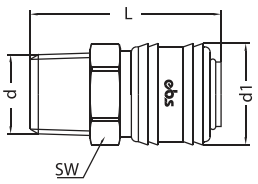
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	L	L1	SW
005245	005246	BSP 1/4"	18	9	42	9	14
005247	005248	BSP 3/8"	18	9	42	9	17
005249	005250	M14x1.5	18	9	42	9	17

45° Erkek Gövde



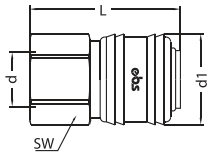
(Valfli) Sip. No	(Valfsiz) Sip. No	d	d1	d2	L	L1	SW
005251	005252	BSP 1/4"	18	9	42	9	14
005253	005254	BSP 3/8"	18	9	42	9	17
005255	005256	M14x1.5	18	9	42	9	17

Erkek Gövde



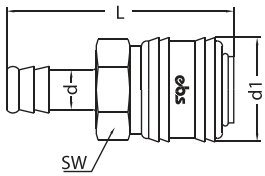
(Valfli) Sip. No	d	d1	L	SW
005257	BSP 1/4"	25	58	21
005258	BSP 3/8"	25	58	21
005259	BSP 1/2"	25	59	21
005260	M14x1.5	25	58	21
005261	M16x1.5	25	58	21
005262	M18x1.5	25	59	21

Dişi Gövde



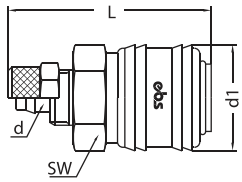
(Valfli) Sip. No	d	d1	L	SW
005263	BSP 1/4"	25	41	21
005264	BSP 1/4"	25	41	21
005265	BSP 3/8"	25	41	21
005266	BSP 1/2"	25	41	24
005267	M14x1.5	25	41	21
005268	M16x1.5	25	41	21
005269	M18x1.5	25	41	22

Hortum Gövde



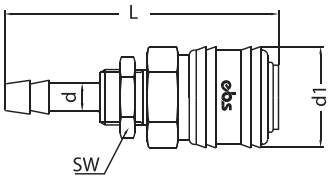
(Valfli) Sip. No	d	d1	L	SW
005270	6 mm–1/4"	25	55	21
005271	8 mm–5/16"	25	55	21
005272	9 mm–5/14"	25	55	21
005273	10 mm–3/8 "	25	55	21
005274	13 mm–1/2"	25	55	21

Plastik Hortum Gövde



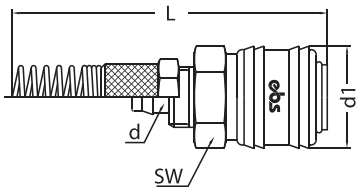
(Valfli) Sip. No	d	d1	L	SW
005275	6 mm–M12x1	25	50	21
005276	8 mm–M16x1	25	54	21
005277	9 mm–M16x1	25	63	21

Panel Plastik Hortum Gövde



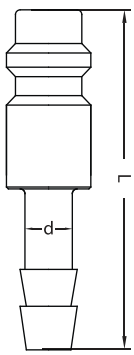
(Valfli) Sip. No	d	d1	L	SW
005278	6 mm–M12x1	25	60	21
005279	8 mm–M16x1	25	63	21
005280	10 mm–M16x1	25	72	21

Yaylı Plastik Hortum Gövde



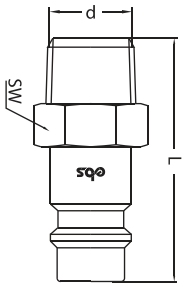
(Valfli) Sip. No	d	d1	L	SW
005281	6x8 mm–M12x1	25	133	21
005282	8x10 mm–M16x1	25	148	21
005283	9x12 mm–M16x1	25	148	21

Erkek Uçlar



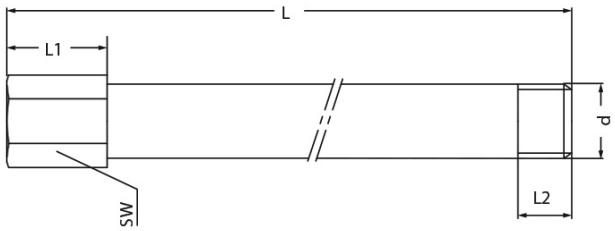
(Valfli) Sip. No	d	L
005284	6 mm–1/4"	46
005285	8 mm–5/16"	46
005286	9 mm–5/14"	46
005287	10 mm–3/8"	46
005288	13 mm–1/2"	46

Erkek Uçlar



(Valfsiz) Sip. No	d	L	SW
005289	BSP 1/8"	31	13
005290	BSP 1/4"	33	14
005291	BSP 3/8"	33	17
005292	BSP 1/2"	38	22
005293	M14x1.5	35	17
005294	M16x1.5	36	17
005295	M18x1.5	37	19





Uzatma Rekorlar

Sip. No	(Valfsiz)					
	d	d1	d2	L	L1	SW
005296	M8 x 1.25			40		
005297	M8–60 x 1.25			60		
005298	M8–80 x 1.25			80		
005299	M8–100 x 1.25			100		
005300	M8–120 x 1.25			120		
005301	M8–150 x 1.25			150		
005302	M10 x 1.5			40		
005303	M10–60 x 1.5	12	7	60	28	13
005304	M10–80 x 1.5			80		
005305	M10–100 x 1.5			100		
005306	M10–120 x 1.5			120		
005307	M10–150 x 1.5			150		
005308	M12 x 1.75			40		
005309	M12–60 x 1.75			60		
005310	M12–80 x 1.75			80		

Sip. No	(Valfsiz)					
	Bağlantı		L	L1	L2	SW
	Erkek	Dişi				
005311	G 3/8"	G 3/8"	80	12	10	19
005312	G 3/8"	G 3/8"	100	12	10	19
005313	G 3/8"	G 3/8"	120	12	10	19
005314	G 3/8"	G 3/8"	150	12	10	19
005315	G 1/8"	G 1/4"	60	12	10	14
005316	G 1/8"	G 1/4"	80	12	10	14
005317	G 1/8"	G 1/4"	100	12	10	14
005318	G 1/8"	G 1/4"	120	12	10	14
005319	G 1/8"	G 1/4"	150	12	10	14
005320	G 1/4"	G 1/8"	60	12	10	14
005321	G 1/4"	G 1/8"	80	12	10	14
005322	G 1/4"	G 1/8"	100	12	10	14

Sip. No	(Valfsiz)					
	Bağlantı		L	L1	L2	SW
	Erkek	Dişi				
005323	G 1/4"	G 1/8"	120	12	10	14
005324	G 1/4"	G 1/8"	150	12	10	14
005325	G 1/8"	G 3/8"	60	12	10	19
005326	G 1/8"	G 3/8"	80	12	10	19
005327	G 1/8"	G 3/8"	100	12	10	19
005328	G 1/8"	G 3/8"	120	12	10	19
005329	G 1/8"	G 3/8"	150	12	10	19
005330	G 3/8"	G 1/8"	60	12	10	19
005331	G 3/8"	G 1/8"	80	12	10	19

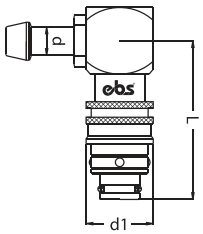
Hortum Gövde

(Valfsiz) Sip. No	d	d1	L
005332	1/4"–0.6 mm	20	62
005333	5/16"–0.8 mm	20	62
005334	3/8"–10 mm	20	62
005335	15/32"–12 mm	20	62
005336	1/2"–13 mm	20	62

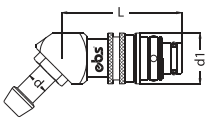


90° Hortum Gövde

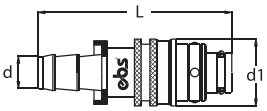
(Valfsiz) Sip. No	d	d1	L
005337	1/4"–0.6 mm	20	45,5
005338	5/16"–0.8 mm	20	45,5
005339	3/8"–10 mm	20	45,5
005340	15/32"–12 mm	20	45,5
005341	1/2"–13 mm	20	45,5



45° Hortum Gövde

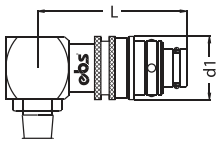


(Valfsiz) Sip. No	d	d1	L
005342	1/4"–0.6 mm	20	47,5
005343	5/16"–0.8 mm	20	47,5
005344	3/8"–10 mm	20	47,5
005345	15/32"–12 mm	20	47,5
005346	1/2"–13 mm	20	47,5



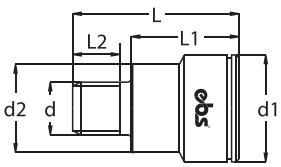
Kelepçesiz Hortum Gövde

(Valfsiz) Sip. No	d	d1	L
005347	3/8"–10 mm	20	37
005348	1/2"–13 mm	20	40



90° Kelepçesiz Hortum Gövde

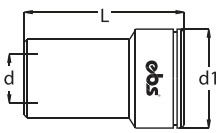
(Valfsiz) Sip. No	d	d1	L
005349	3/8"–10 mm	20	45,5
005350	1/2"–13 mm	20	45,5



Erkek Uçlar

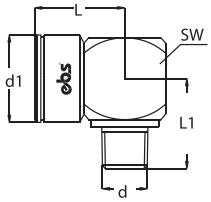
(Valfsiz) Sip. No	d	d1	L1	L2	d2	L	SW
005351	BSPT 1/8"	21	21	8	17,5	31	6
005352	BSPT 1/4"	21	21	10	17,5	33	8
005353	BSPT 3/8"	21	11	11	17,5	24	8
005354	NPT 1/8"	21	21	7	17,5	31	1/4"
005355	NPT 1/4"	21	21	10	17,5	33	5/16"

(Valfsiz) Sip. No	d	d1	L1	L2	d2	L	SW
005356	NPT 3/8"	21	11	11	17,5	24	5/16"
005357	M10x1.0	21	21	10	17,5	31	6
005358	M10x1.5	21	21	10	17,5	31	6
005359	M14x1.5	21	21	11	17,5	31	8
005360	M12x1.75	21	21	11	17,5	31	8



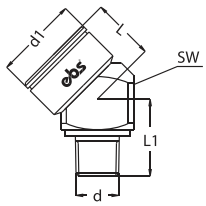
Dişi Uçlar

(Valfsiz) Sip. No	d	d1	L	SW
005361	BSPT 1/8"	21	39	8
005362	BSPT 1/4"	21	39	8



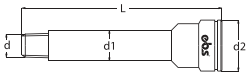
90° Erkek Uçlar

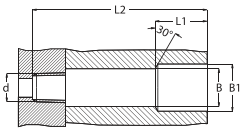
(Valfsiz) Sip. No	d	d1	L	L1	SW
005363	BSPT 1/8"	21	33	23	20
005364	BSPT 1/4"	21	33	25	20
005365	BSPT 3/8"	21	33	26	20
005366	NPT 1/4"	21	21	27	20



45° Erkek Uçlar

(Valfsiz) Sip. No	d	d1	L	L1	SW
005367	BSPT 1/8"	21	33	16,5	20
005368	BSPT 1/4"	21	33	16,5	20
005369	BSPT 3/8"	21	33	16,5	20
005370	NPT 1/4"	21	33	16,5	20

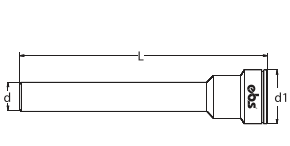




Erkek Uzatma Uçlar

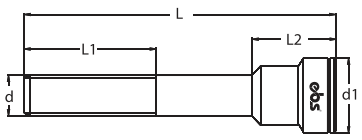
(Valfsiz) Sip. No	d	L min/max	L1	L2	d2	B1	B	d1	SW
005371	BSPT 1/8"	33/100	23	L-5.5	21	22	11	10,2	6
005372	BSPT 1/8"	100/150	23	L-5.5	21	22	11	10,2	6
005373	BSPT 1/8"	150/200	23	L-5.5	21	22	11	10,2	6
005374	BSPT 1/8"	200/250	23	L-5.5	21	22	11	10,2	6
005375	NPT 1/8"	33/100	23	L-5.5	21	22	11	10,2	1/4"

(Valfsiz) Sip. No	d	L min/max	L1	L2	d2	B1	B	d1	SW
005376	NPT 1/8"	100/150	23	L-5.5	21	22	11	10,2	1/4"
005377	NPT 1/8"	150/200	23	L-5.5	21	22	11	10,2	1/4"
005378	NPT 1/8"	200/250	23	L-5.5	21	22	11	10,2	1/4"
005379	BSPT 1/4"	33/100	23	L-7.5	21	22	14	13,5	8
005380	BSPT 1/4"	100/150	23	L-7.5	21	22	14	13,5	8
005381	BSPT 1/4"	150/200	23	L-7.5	21	22	14	13,5	8
005382	BSPT 1/4"	200/250	23	L-7.5	21	22	14	13,5	8
005383	NPT 1/4"	33/100	23	L-5.5	21	22	14	13,5	1/4"
005384	NPT 1/4"	100/150	23	L-5.5	21	22	14	13,5	1/4"
005385	NPT 1/4"	150/200	23	L-5.5	21	22	14	13,5	1/4"
005386	NPT 1/4"	200/250	23	L-5.5	21	22	14	13,5	1/4"



Erkek Uzatma Uçlar

(Valfsiz) Sip. No	d	L	L1	L2	d1	B1	B	SW
005387	10,2	50	23	L-5.5	21	22	11	6
005388	10,2	100	23	L-5.5	21	22	11	6
005389	10,2	150	23	L-5.5	21	22	11	6
005390	10,2	200	23	L-5.5	21	22	11	6
005391	13,5	50	23	L-7.5	21	22	14	8
005392	13,5	100	23	L-7.5	21	22	14	8
005393	13,5	150	23	L-7.5	21	22	14	8
005394	13,5	200	23	L-7.5	21	22	14	8
005395	13,5	250	23	L-7.5	21	22	14	8



Erkek Uzatma Uçlar

(Valfsiz) Sip. No	d	L	L1	L2	d1	SW
005396	BSP 1/8"	50	26	21	21	6
005397	BSP 1/8"	100	60	21	21	6
005398	BSP 1/8"	150	60	21	21	6
005399	BSP 1/4"	50	27	21	21	8
005400	BSP 1/4"	100	60	21	21	8
005401	BSP 1/4"	150	60	21	21	8
005402	BSP 1/4"	200	60	21	21	8



Manşon

Sip. No	Bağlantı Ölçüleri
005403	M5
005404	G 1/8"
005405	G 1/4"
005406	G 3/8"
005407	G 1/2"
005408	G 3/4"
005409	G 1"



Redüksiyon

Sip. No		Bağlantı	
Erkek	Dişi	Erkek	Dişi
005410	005411	M5	M5
005412	005413	M5	G 1/8"
005414	005415	G 1/8"	M5
005416	005417	G 1/8"	G 1/8"
005418	005419	G 1/8"	G 1/4"
005420	005421	G 1/4"	G 1/8"
005422	005423	G 1/4"	G 1/4"

Sip. No		Bağlantı	
Erkek	Dişi	Erkek	Dişi
005424	005425	G 1/4"	G 3/8"
005426	005427	G 3/8"	G 1/4"
005428	005429	G 3/8"	G 3/8"
005430	005431	G 3/8"	G 1/2"
005432	005433	G 1/2"	G 3/8"
005434	005435	G 1/2"	G 1/2"
005436	005437	G 1/2"	G 3/4"



Redüksiyon

Sip. No		Bağlantı	
Erkek	Dişi	Erkek	Dişi
005438	005439	M5	G 1/8"
005440	005441	M5	G 1/4"
005442	005443	G 1/8"	G 1/4"
005444	005445	G 3/8"	G 1/4"
005446	005447	G 1/8"	G 3/8"
005448	005449	G 1/8"	G 1/2"
005450	005451	G 1/4"	G 3/8"

Sip. No		Bağlantı	
Erkek	Dişi	Erkek	Dişi
005452	005453	G 1/4"	G 1/2"
005454	005455	G 3/8"	G 1/2"
005456	005457	G 3/8"	G 3/4"
005458	005459	G 1/2"	G 3/4"
005460	005461	G 1/2"	G 1"
005462	005463	G 3/4"	G 1"



Plastik Rekor

Sip. No	Bağlantı Ölçüleri
005464	1/8-4
005465	1/8-6
005466	1/4-6
005467	3/8 -6
005468	1/2-6
005469	1/8-8
005470	1/4-8
005471	3/8-8

Sip. No	Bağlantı Ölçüleri
005472	1/2-8
005473	1/4-10
005474	3/8-10
005475	1/2-10
005476	1/4-12
005477	3/8-12
005478	1/2-12



Plastik Düz Nipel

Sip. No	Bağlantı Ölçüleri
005479	4
005480	5
005481	6
005482	8
005483	9
005484	9.5

Sip. No	Bağlantı Ölçüleri
005485	10
005486	11
005487	12
005488	14
005489	15
005490	16



Plastik T Nipel

Sip. No	Bağlantı Ölçüleri
005491	4
005492	6
005493	8
005494	10
005495	12
005496	16



Redüksiyon T

Sip. No	Bağlantı Ölçüleri
005497	6–6–8
005498	8–8–6
005499	8–8–10
005500	10–10–8
005501	10–10–12
005502	12–12–10



Redüksiyon

Sip. No	Bağlantı Ölçüleri
005503	6–4
005504	8–6
005505	10–8
005506	12–10



Döner Dirsek

Sip. No	Bağlantı Ölçüleri
005507	12–10
005508	1/8–4
005509	1/8–6
005510	1/4–6
005511	3/8–6
005512	1/8–8
005513	1/4–8
005514	3/8–8
005515	1/4–10
005516	3/8 -10
005517	1/2–10
005518	1/4–12
005519	3/8–12
005520	1/2–12



Plastik Dirsek

Sip. No	Bağlantı Ölçüleri
005521	4
005522	6
005523	8
005524	10
005525	12
005526	16



Orta Bacak Dişli

Sip. No	Bağlantı Ölçüleri
005527	1/8–6
005528	1/4–6
005529	3/8–6
005530	1/8–8
005531	1/4–8
005532	3/8–8
005533	1/4–10
005534	3/8 -10
005535	1/4–12
005536	3/8–12



Plastik Y

Sip. No	Bağlantı Ölçüleri
005537	1/8–6
005538	1/4–6
005539	3/8–6
005540	1/8–8
005541	1/4–8
005542	3/8–8
005543	1/4–10
005544	3/8 -10
005545	1/4–12
005546	3/8–12



Yan Bacak Dişli

Sip. No	Bağlantı Ölçüleri
005547	4–4–4
005548	6–6–6
005549	8–8–8
005550	10–10–10
005551	12–12–12



Polietilen Hortum

Sip. No	Bağlantı Ölçüleri
005552	2 x 4
005553	3 x 5
005554	4 x 6
005555	4 x 8
005556	5 x 8
005557	6 x 8
005558	6 x 10
005559	8 x 10

Sip. No	Bağlantı Ölçüleri
005560	8 x 12
005561	9 x 11
005562	10 x 12
005563	10 x 14
005564	12 x 16
005565	10 x 16
005566	6,5 x 10
005567	9 x 12



Polyamid 12 Hortum

Sip. No	Bağlantı Ölçüleri
005568	5 x 3.3
005569	6 x 3
005570	6 x 4
005571	7 x 5
005572	7.5 x 3.5
005573	8 x 4.4
005574	8 x 5.5
005575	8 x 6
005576	9 x 6
005577	9.5 x 6
005578	9.5 x 7
005579	10 x 8
005580	12 x 9

d1 (İç Çap)	H (Kalınlık)									
	1.0	1.5	2.0	2.5	3.5	4.0	4.5	5.0	5.5	6.0	6.5
2.0	o	o	o	o	o	o	o	o	o	o	o
2.5	o	o	o	o	o	o	o	o	o	o	o
3.0	o	o	o	o	o	o	o	o	o	o	o
3.5	o	o	o	o	o	o	o	o	o	o	o
4.0	o	o	o	o	o	o	o	o	o	o	o
4.5	o	o	o	o	o	o	o	o	o	o	o
5.0	o	o	o	o	o	o	o	o	o	o	o
5.5	o	o	o	o	o	o	o	o	o	o	o
6.0	o	o	o	o	o	o	o	o	o	o	o
6.5	o	o	o	o	o	o	o	o	o	o	o
7.0	o	o	o	o	o	o	o	o	o	o	o
7.5	o	o	o	o	o	o	o	o	o	o	o
8.0	o	o	o	o	o	o	o	o	o	o	o
9.0	o	o	o	o	o	o	o	o	o	o	o
10.0	o	o	o	o	o	o	o	o	o	o	o
11.0	o	o	o	o	o	o	o	o	o	o	o
12.0	o	o	o	o	o	o	o	o	o	o	o
13.0	o	o	o	o	o	o	o	o	o	o	o
14.0	o	o	o	o	o	o	o	o	o	o	o
15.0	o	o	o	o	o	o	o	o	o	o	o
16.0	o	o	o	o	o	o	o	o	o	o	o
18.0	o	o	o	o	o	o	o	o	o	o	o



O-Ring

d1 (İç Çap)	H (Kalınlık)										
	1.0	1.5	2.0	2.5	3.5	4.0	4.5	5.0	5.5	6.0	6.5
20.0	o	o	o	o	o	o	o	o	o	o	o
22.0	o	o	o	o	o	o	o	o	o	o	o
24.0	o	o	o	o	o	o	o	o	o	o	o
26.0	o	o	o	o	o	o	o	o	o	o	o
28.0	o	o	o	o	o	o	o	o	o	o	o
30.0	o	o	o	o	o	o	o	o	o	o	o
32.0	o	o	o	o	o	o	o	o	o	o	o
34.0	o	o	o	o	o	o	o	o	o	o	o
36.0	o	o	o	o	o	o	o	o	o	o	o
40.0	o	o	o	o	o	o	o	o	o	o	o
45.0	o	o	o	o	o	o	o	o	o	o	o
50.0	o	o	o	o	o	o	o	o	o	o	o
60.0	o	o	o	o	o	o	o	o	o	o	o









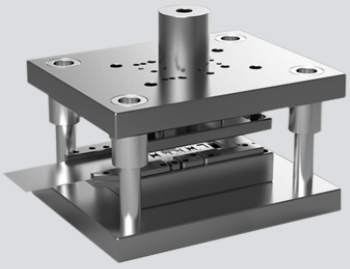
Neodyum Mıknatıslar

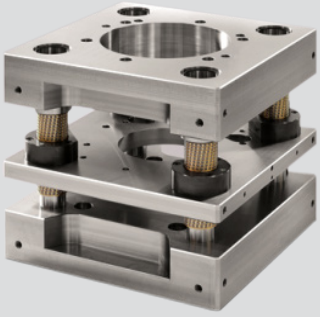
Sip. No	Yuvarlak	
	Ø D mm	H mm (Yük-seklik)
005581	2	1
005582	3	1.5
005583	3	3
005584	3	6
005585	4	2
005586	4	4
005587	5	1.5
005588	6	3
005589	8	2
005590	8	4
005591	10	3
005592	10	5
005593	11.5	1.6
005594	12	1.5
005595	15	2.5
005596	18	3
005597	20	5
005598	25	5
005599	28	10
005600	30	2

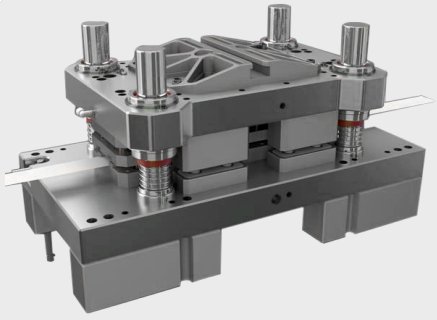
Sip. No	Halka		
	Ø D mm	D1 mm (İç Çap)	H mm (Yük-seklik)
005601	13	5	2
005602	15	5	5
005603	18	5	2
005604	18	6	10
005605	25	5	10
005606	25	6	10
005607	28	6	10
005608	30	9	10
005609	40	22	8
005610	40	24	6
005611	44	25	7
005612	50	30	7
005613	60	32	10
005614	70	32	10

Sip. No	Halka		
	L mm	W mm	H mm
005615	10	5	1.5
005616	10	10	3
005617	15	10	3
005618	15	10	5
005619	15	15	2
005620	20	10	2
005621	25	10	10
005622	25	25	5
005623	30	20	5
005624	35	25	10
005625	35	28	10
005626	40	20	5
005627	40	20	10
005628	40	25	10

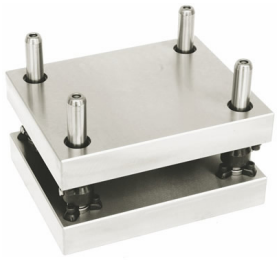
STANDART KESME KALIP ELEMANLARI

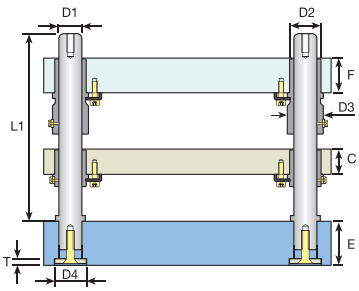


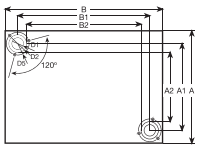


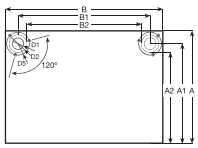


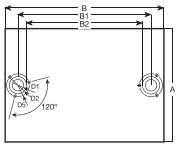
STANDART KESME KALIP SETLERİ

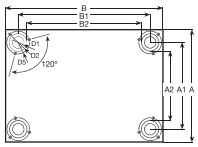


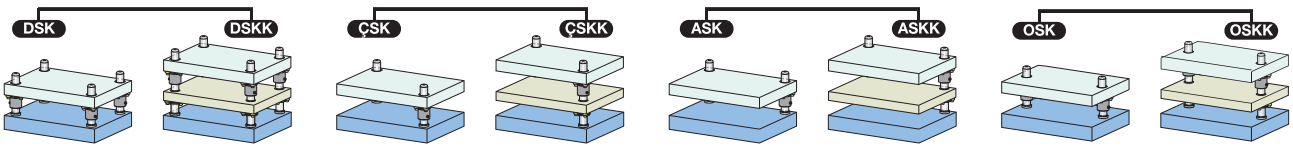




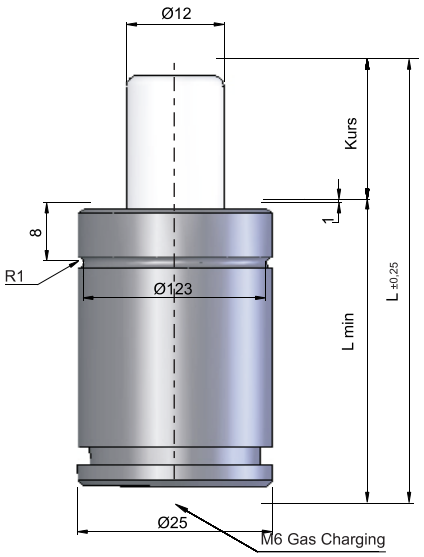






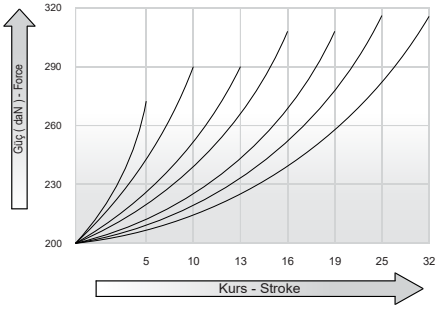


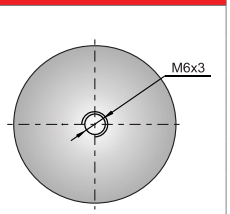
A	B	E	F	C	A1	A2	A3	A4	B1	B2	T	D4	D1	D2	D3	D5
156	156	27 37 47	27 37	27	110	76	133	116	110	76	7.5	28	20	28	34	44
	196								150	116						
	246								200	166						
	296								250	210						
196	196	27 37 47	27 37	27	150	116	173	156	150	116	7.5	28	20	28	34	44
	246								200	166						
	296								250	216						
	346								300	266						
	396								30	316						
246	246	37 47 57	37 47	27 37	190	151	218	198	190	151	7.5	35	25	34	39	50
	296								240	201						
	346								290	251						
	396								340	301						
	446								390	351						
296	296	37 47 57	37 47 57	37 47	230	186	263	341	230	186	7.5	35	30	39	44	55
	346								280	236						
	396								330	286						
	446								380	336						
	496								430	386						
346	346	37 47 57	37 47 57	37 47	280	236	313	291	280	236	7.5	35	30	39	44	55
	396								330	286						
	446								380	336						
	496								430	386						
	546								480	436						
396	396	47 57 67	47 57	37 47	320	266	358	331	320	266	10.5	45	40	50	54	66
	446								370	316						
	496								420	366						
	546								470	416						
	596								520	466						
446	446	47 57 67	47 57 67	37 47	370	316	408	381	370	316	10.5	45	40	50	54	66
	496								420	366						
	546								470	416						
	596								520	466						
	646								570	516						
496	496	47 57 67	47 57 67	47	420	366	458	431	420	366	10.5	45	40	50	54	66
	546								470	416						
	596								520	466						
	646								570	516						
	696								620	566						
546	546	57 67 77	57 67 77	47	450	386	498	466	450	386	10.5	60	50	60	64	76
	596								500	436						
	646								550	486						
	696								600	536						
	746								650	586						
596	596	57 67 77	57 67 77	47 57	500	436	548	516	500	436	10.5	60	50	60	64	76
	646								550	486						
	696								600	536						
	746								650	586						
	796								700	636						

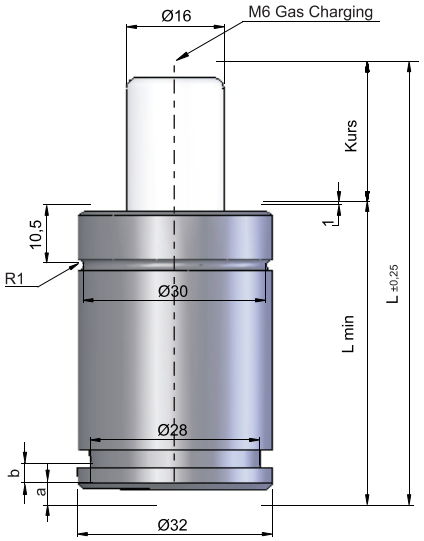


YO 200–Gazlı Yay

Basınç Gazı : Nitrogen N2
Max. Basınç : 150 bar
Min. Basınç : 25 bar
Çalışma Sıcaklığı : 0°C ve +80°CMax
Çalışma Hızı : 1,8 m / s

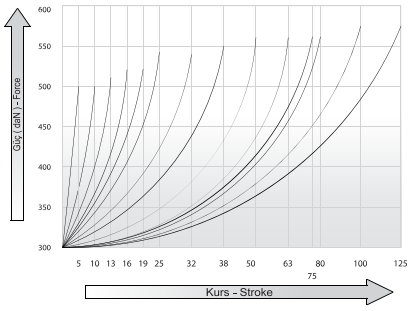


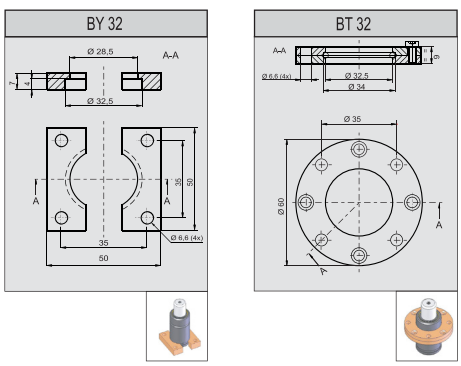
Sip. No	Kurs	L	Lmin	daN	Kg	Alt Görünüm
005629	5	40	35	200	~ 0,09	
005630	10	50	40		~ 0,10	
005631	13	56	43		~ 0,10	
005632	16	62	46		~ 0,11	
005633	19	68	49		~ 0,12	
005634	25	80	55		~ 0,13	
005635	32	94	62		~ 0,16	

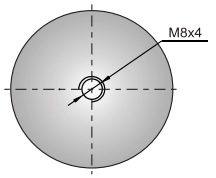


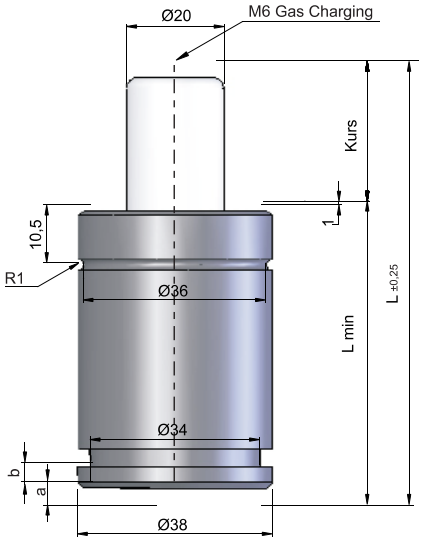
YO 300–Gazlı Yay

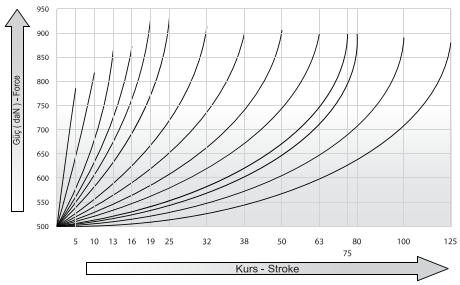
Basınç Gazı : Nitrogen N2
Max. Basınç : 150 bar
Min. Basınç : 25 bar
Çalışma Sıcaklığı : 0°C ve +80°CMax
Çalışma Hızı : 1,8 m / s





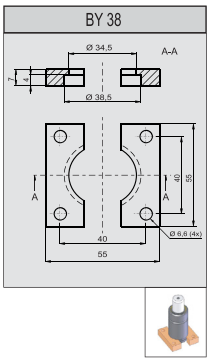
Sip. No	Kurs	L	Lmin	daN	Kg	Alt Görünüm
005636	5	40	35	300	~ 0,17	
005637	10	50	40		~ 0,18	
005638	13	56	43		~ 0,19	
005639	16	62	46		~ 0,20	
005640	19	68	49		~ 0,22	
005641	25	80	55		~ 0,25	
005642	32	94	62		~ 0,27	
005643	38	106	68		~ 0,29	
005644	50	130	80		~ 0,34	
005645	63	156	93		~ 0,39	
005646	75	180	105		~ 0,42	
005647	80	190	110		~ 0,45	
005648	100	230	130		~ 0,53	
005649	125	280	150		~ 0,68	

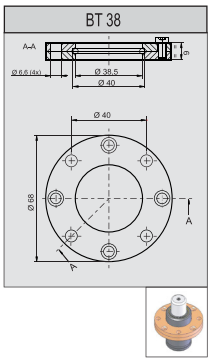


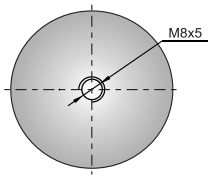


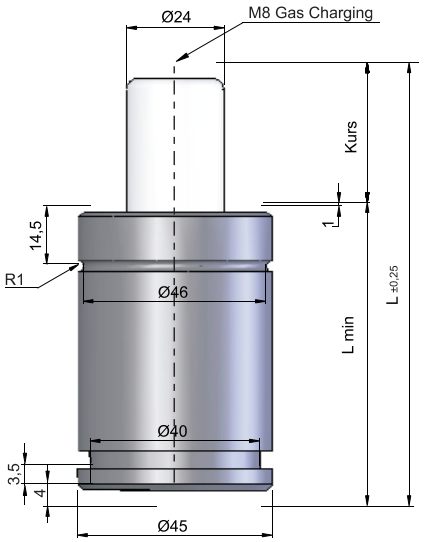
YO 500–Gazlı Yay

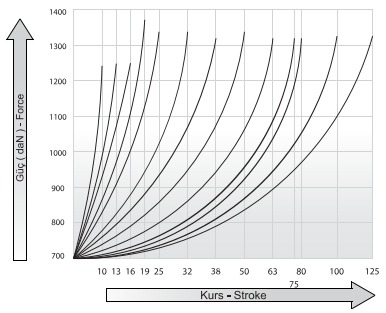
Basınç Gazı : Nitrogen N2
Max. Basınç : 150 bar
Min. Basınç : 25 bar
Çalışma Sıcaklığı : 0°C ve +80°CMax
Çalışma Hızı : 1,8 m / s





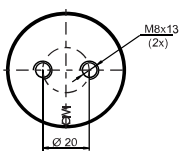
Sip. No	Kurs	L	Lmin	daN	Kg	Alt Görünüm
005650	5	40	35	500	~ 0,25	
005651	10	50	40		~ 0,27	
005652	13	56	43		~ 0,29	
005653	16	62	46		~ 0,31	
005654	19	68	49		~ 0,33	
005655	25	80	55		~ 0,36	
005656	32	94	62		~ 0,40	
005657	38	106	68		~ ,044	
005658	50	130	80		~ 0,50	
005659	63	156	93		~ 0,57	
005660	75	180	105		~ 0,61	
005661	80	190	110		~ 0,66	
005662	100	230	130		~ 0,77	
005663	125	250	155		~ 0,90	

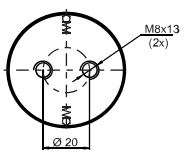


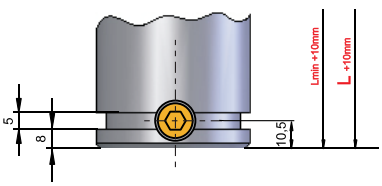


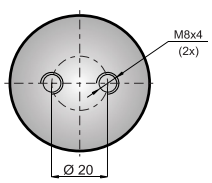
YO 700–Gazlı Yay

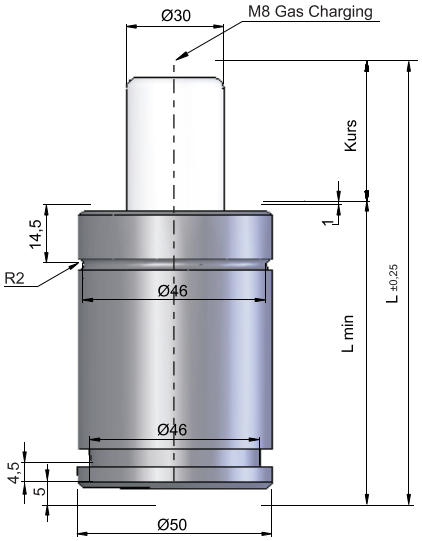
Basınç Gazı : Nitrogen N2
Max. Basınç : 150 bar
Min. Basınç : 25 bar
Çalışma Sıcaklığı : 0°C ve +80°CMax
Çalışma Hızı : 1,8 m / s





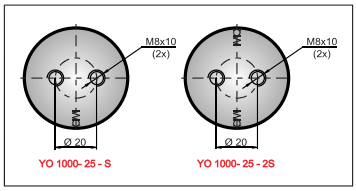


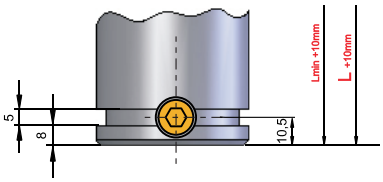
Sip. No	Kurs	L	Lmin	daN	Kg	Alt Görünüm
005664	10	52	42	700	~ 0,39	
005665	13	58	45		~0,42	
005666	16	64	48		~0,45	
005667	19	70	51		~0,48	
005668	25	82	57		~0,53	
005669	32	96	64		~0,58	
005670	38	108	70		~0,62	
005671	50	132	82		~0,71	
005672	63	158	95		~0,81	
005673	75	182	107		~0,85	
005674	80	192	112		~0,93	
005675	100	232	132		~1,04	
005676	125	125	157		~1,28	

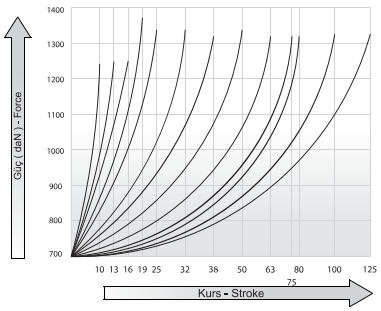


YO 1000–Gazlı Yay

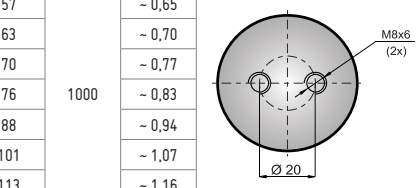
Basınç Gazı : Nitrogen N2
Max. Basınç : 150 bar
Min. Basınç : 25 bar
Çalışma Sıcaklığı : 0°C ve +80°CMax
Çalışma Hızı : 1,8 m / s

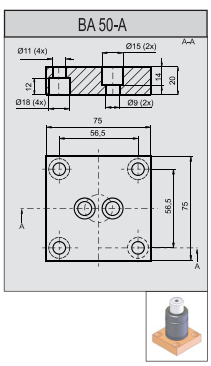


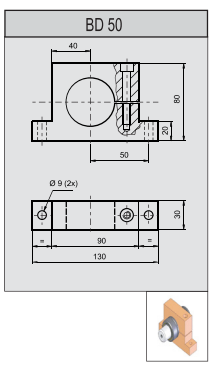


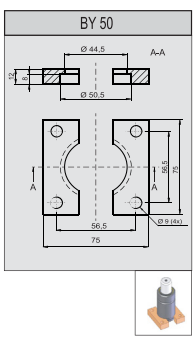


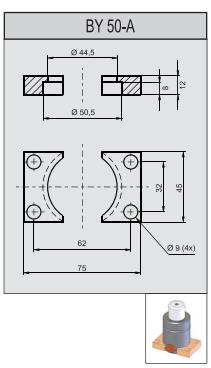
Sip. No	Kurs	L	Lmin	daN	Kg	Alt Görünüm
005677	10	58	48		~ 0,57	
005678	13	64	51		~ 0,59	
005679	16	70	54		~ 0,62	
005680	19	76	57		~ 0,65	
005681	25	88	63		~ 0,70	
005682	32	102	70		~ 0,77	
005683	38	114	76	1000	~ 0,83	
005684	50	138	88		~ 0,94	
005685	63	164	101		~ 1,07	
005686	75	188	113		~ 1,16	
005687	80	198	118		~ 1,21	
005688	100	238	138		~ 1,43	
005689	125	288	163		~ 1,70	

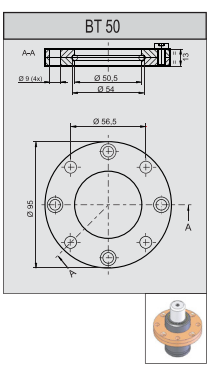


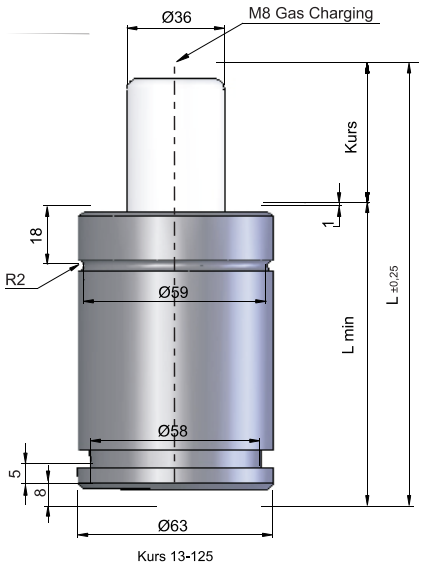








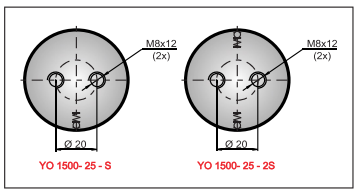


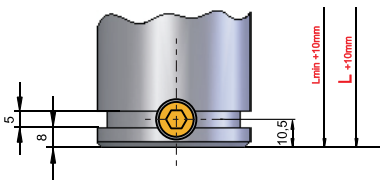


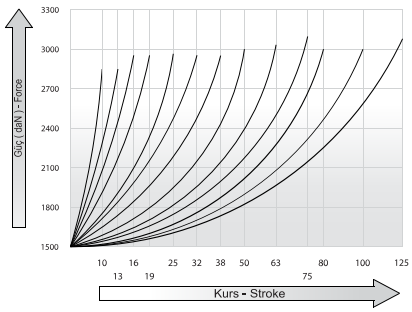
Kurs 13-125

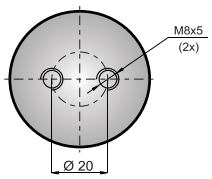
YO 1500–Gazlı Yay

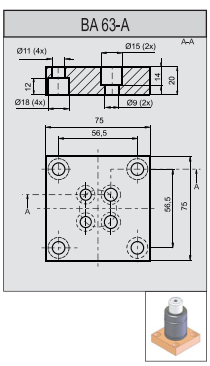
Basınç Gazı : Nitrogen N2
Max. Basınç : 150 bar
Min. Basınç : 25 bar
Çalışma Sıcaklığı : 0°C ve +80°CMax
Çalışma Hızı : 1,8 m / s

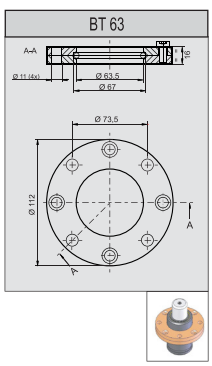


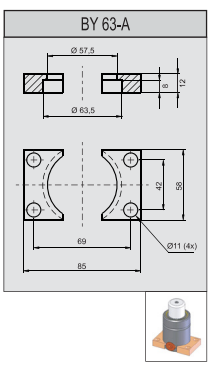


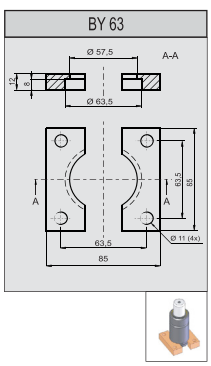


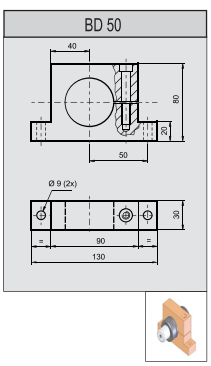
Sip. No	Kurs	L	Lmin	daN	Kg	Alt Görünüm
005690	10	64	54	1500	~ 1,02	
005691	13	70	57		~ 1,05	
005692	16	76	60		~ 1,10	
005693	19	82	63		~ 1,15	
005694	25	94	69		~ 1,25	
005695	32	108	76		~ 1,35	
005696	38	120	82		~ 1,44	
005697	50	144	94		~ 1,61	
005698	63	170	107		~ 1,81	
005699	75	194	119		~ 1,90	
005700	80	204	124		~ 2,06	
005701	100	244	144		~ 2,38	
005702	125	294	169		~ 2,86	

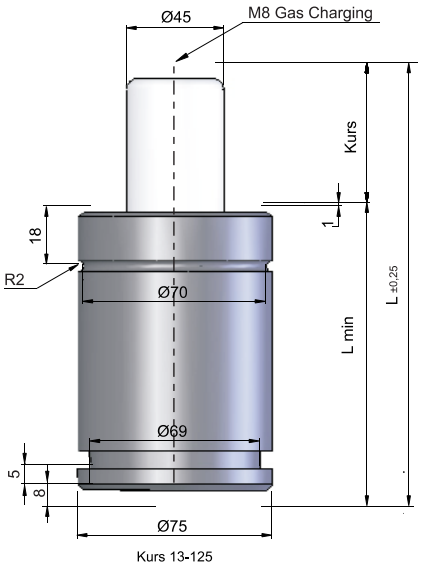








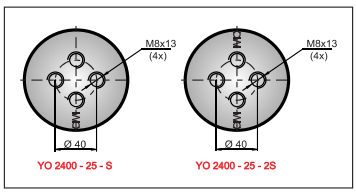


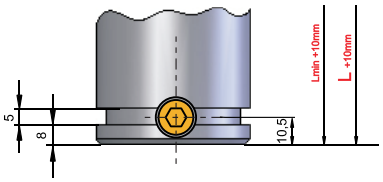


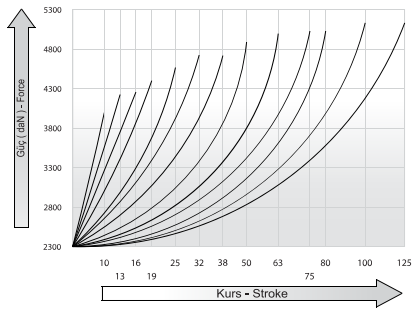
Kurs 13-125

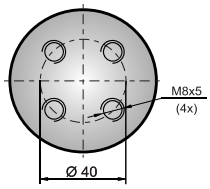
YO 2400–Gazlı Yay

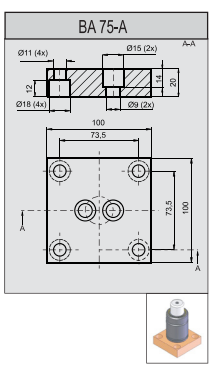
Basınç Gazı : Nitrogen N2
Max. Basınç : 150 bar
Min. Basınç : 25 bar
Çalışma Sıcaklığı : 0°C ve +80°CMax
Çalışma Hızı : 1,8 m / s

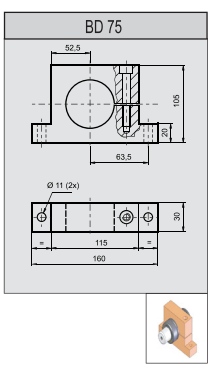


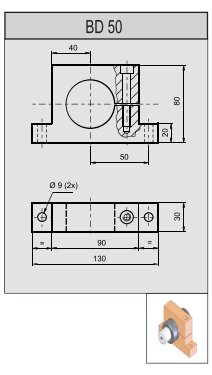


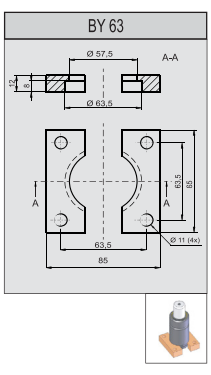


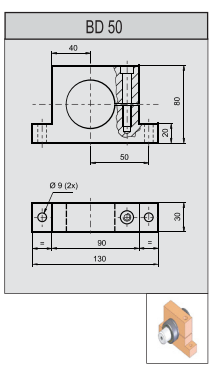
Sip. No	Kurs	L	Lmin	daN	Kg	Alt Görünüm
005703	10	65	55	2400	~ 1,47	
005704	13	71	58		~ 1,52	
005705	16	77	61		~ 1,58	
005706	19	83	64		~ 1,65	
005707	25	95	70		~ 1,77	
005708	32	109	77		~ 1,93	
005709	38	121	83		~ 2,05	
005710	50	145	95		~ 2,30	
005711	63	171	108		~ 2,55	
005712	75	195	120		~ 2,75	
005713	80	205	125		~ 2,85	
005714	100	245	145		~ 3,28	
005715	125	295	170		~ 3,93	

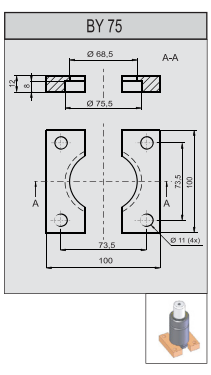


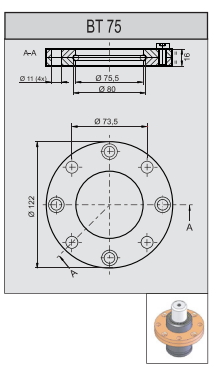


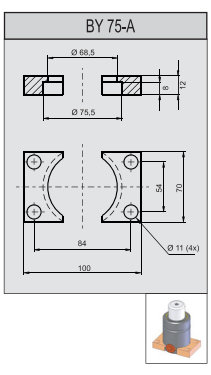


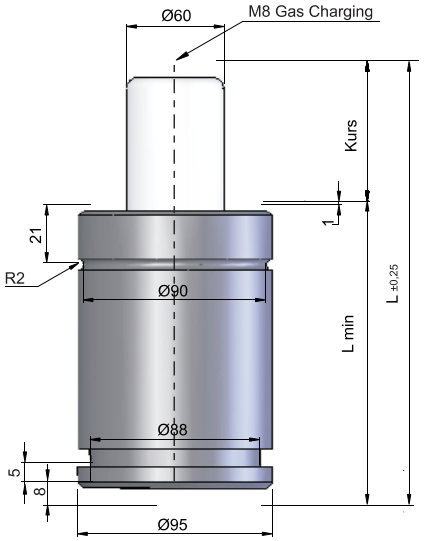






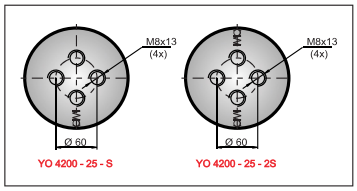


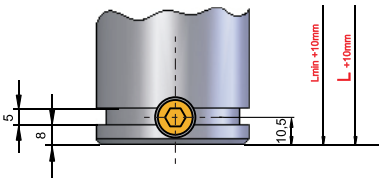


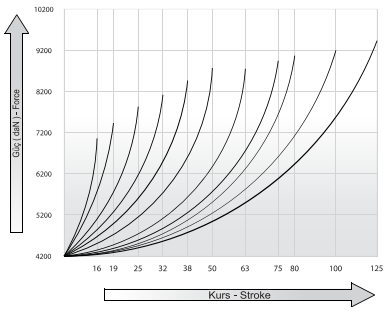


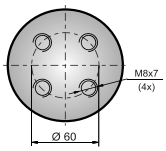
YO 4200–Gazlı Yay

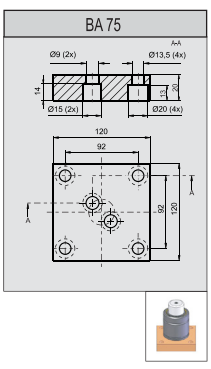
Basınç Gazı : Nitrogen N2
Max. Basınç : 150 bar
Min. Basınç : 25 bar
Çalışma Sıcaklığı : 0°C ve +80°CMax
Çalışma Hızı : 1,8 m / s

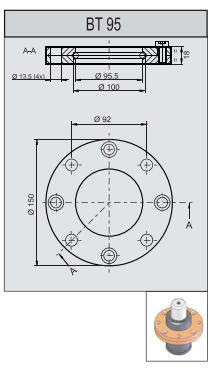


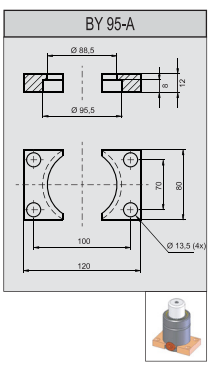


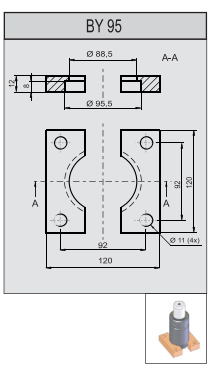


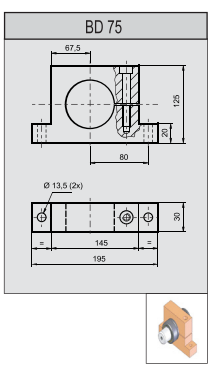
Sip. No	Kurs	L	Lmin	daN	Kg	Alt Görünüm
005716	16	97	81	4200	~ 3,40	
005717	19	103	84		~ 3,45	
005718	25	115	90		~ 3,65	
005719	32	129	97		~ 3,82	
005720	38	141	103		~ 4,00	
005721	50	165	115		~ 4,44	
005722	63	191	128		~ 4,95	
005723	75	215	140		~ 5,20	
005724	80	225	145		~ 5,41	
005725	100	265	165		~ 6,00	
005726	125	315	190		~ 6,70	

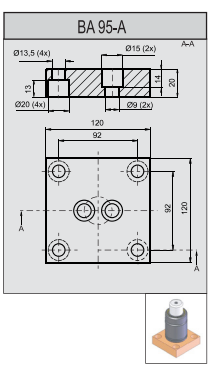


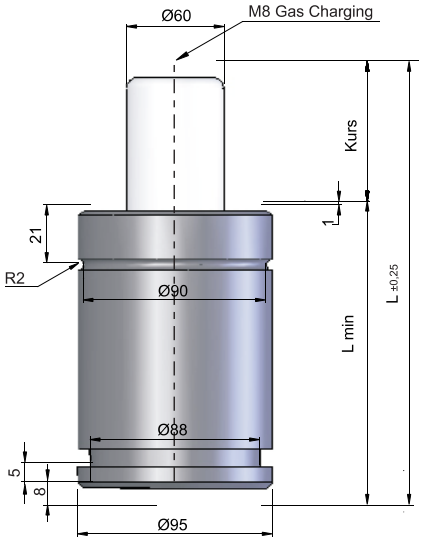






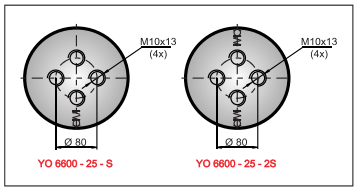


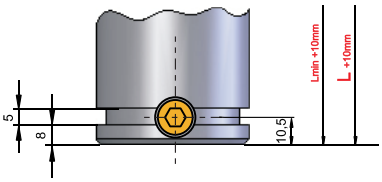


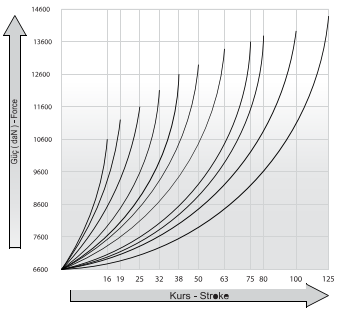


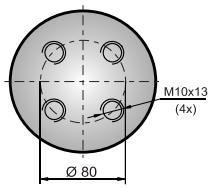
YO 6600–Gazlı Yay

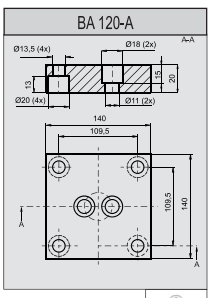
Basınç Gazı : Nitrogen N2
Max. Basınç : 150 bar
Min. Basınç : 25 bar
Çalışma Sıcaklığı : 0°C ve +80°CMax
Çalışma Hızı : 1,8 m / s

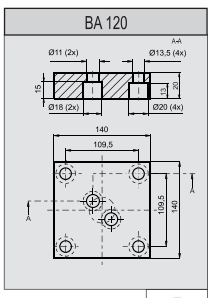


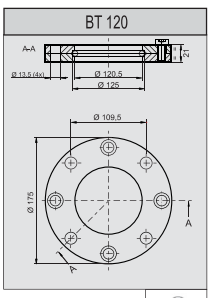


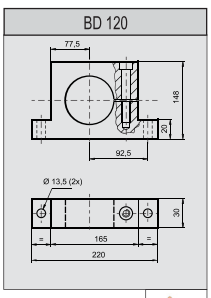


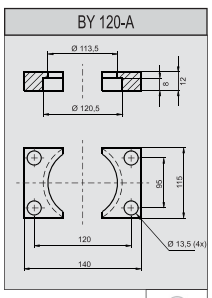
Sip. No	Kurs	L	Lmin	daN	Kg	Alt Görünüm
005727	16	107	91	6600	~ 6,60	
005728	19	113	94		~ 6,65	
005729	25	125	100		~ 6,82	
005730	32	139	107		~ 7,18	
005731	38	151	113		~ 7,57	
005732	50	175	125		~ 8,18	
005733	63	201	138		~ 8,81	
005734	75	225	150		~ 8,95	
005735	80	235	155		~ 9,10	
005736	100	275	175		~ 10,7	
005737	125	325	200		~ 12,5	

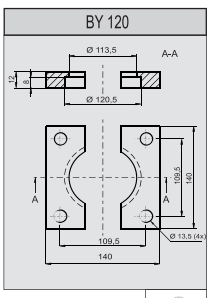


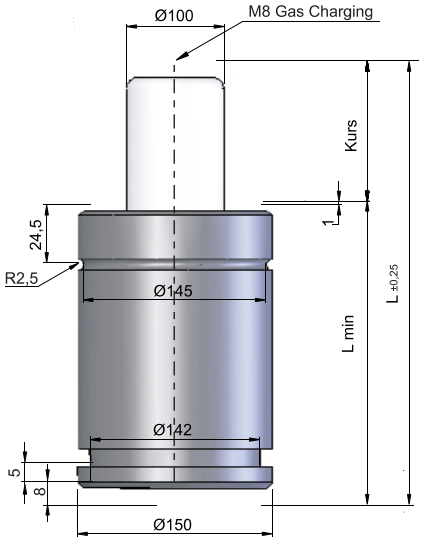






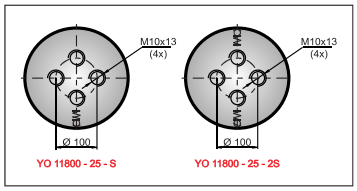


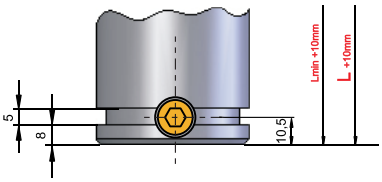


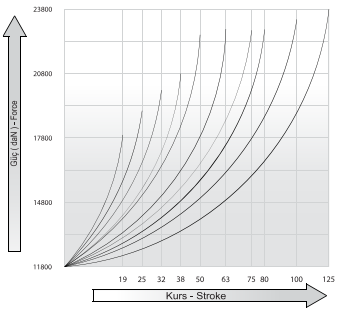


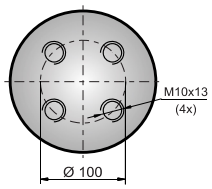
YO 11800–Gazlı Yay

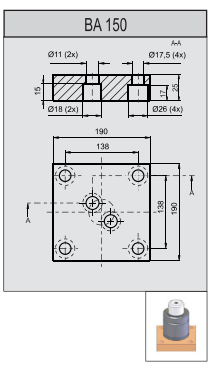
Basınç Gazı : Nitrogen N2
Max. Basınç : 150 bar
Min. Basınç : 25 bar
Çalışma Sıcaklığı : 0°C ve +80°CMax
Çalışma Hızı : 1,8 m / s

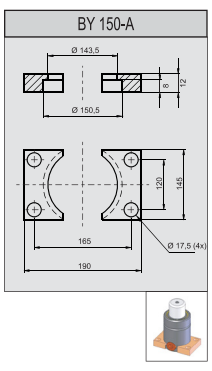


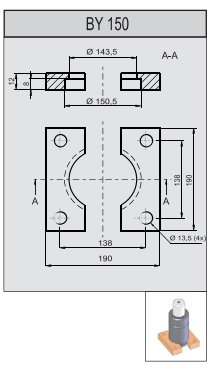


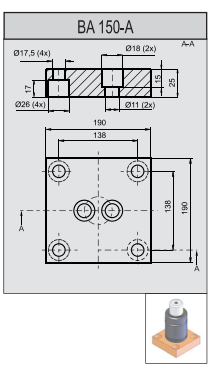


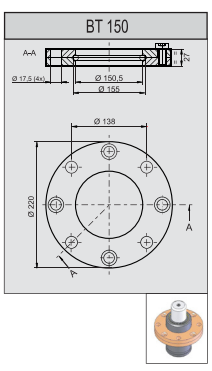
Sip. No	Kurs	L	Lmin	daN	Kg	Alt Görünüm
005738	16	116	97	11800	~ 9,57	
005739	19	128	103		~ 9,96	
005740	25	142	110		~ 10,41	
005741	32	154	116		~ 10,81	
005742	38	178	128		~ 11,59	
005743	50	204	141		~ 11,88	
005744	63	228	153		~ 12,21	
005745	75	238	158		~ 12,43	
005746	80	278	178		~ 13,51	
005747	100	328	203		~ 15,14	

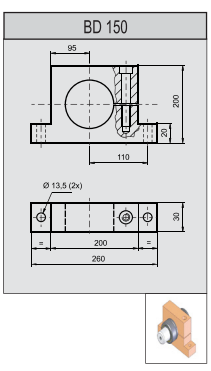


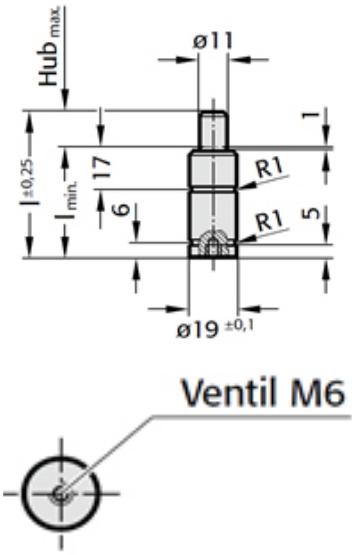






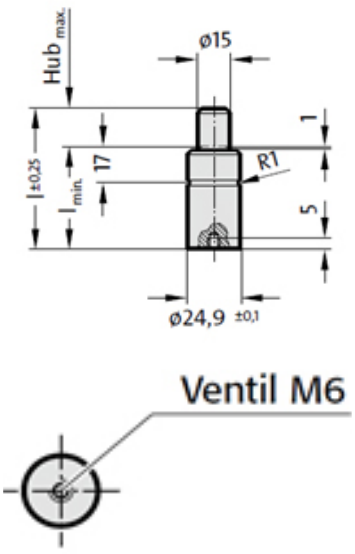






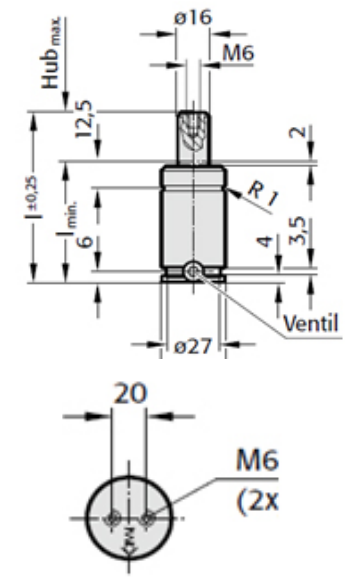
MG 170–Gazlı Yay

Sip No.	Kurs	Kurs	L	İlk Kuvvet	Son Kuvvet	kg
005748	7	37	44	170 KG	280 KG	0,06
005749	10	40	50			0,06
005750	15	45	60			0,07
005751	19	49	68			0,07
005752	25	55	80			0,08
005753	38	68	106			0,09
005754	50	80	130			0,10
005755	63	93	156			0,12
005756	75	110	185			0,14
005757	80	115	195			0,14
005758	100	135	235			0,17
005759	125	160	285			0,19



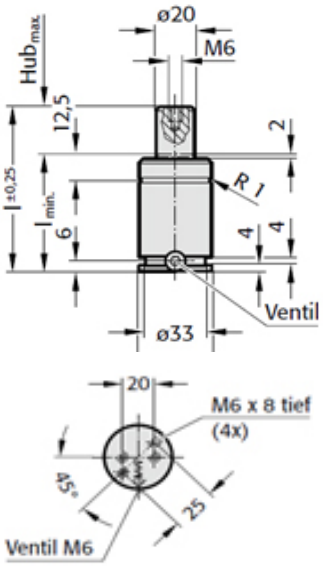
MG 320–Gazlı Yay

Sip No.	Kurs	Kurs	L	İlk Kuvvet	Son Kuvvet	kg
005760	7	37	44	320 KG	520 KG	0,10
005761	10	40	50			0,10
005762	15	45	60			0,11
005763	19	49	68			0,12
005764	25	55	80			0,13
005765	32	62	94			0,14
005766	38	68	106			0,15
005767	50	80	130			0,17
005768	63	93	156			0,19
005769	75	110	185			0,22
005770	80	115	195			0,23
005771	100	135	235			0,26
005772	125	160	285			0,30



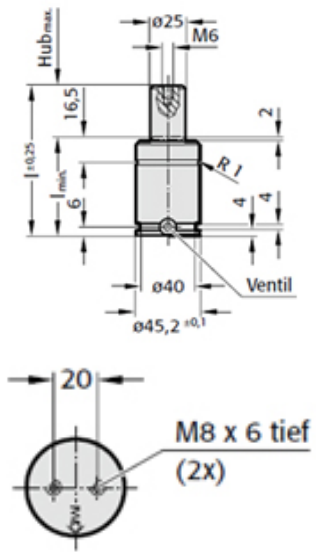
MG 350–Gazlı Yay

Sip No.	Kurs	Kurs	L	İlk Kuvvet	Son Kuvvet	kg
005773	10	40	50	350 KG	540 KG	0,16
005774	13	43	56			0,17
005775	16	46	62			0,18
005776	19	49	68			0,19
005777	25	55	80			0,21
005778	32	62	94			0,23
005779	38	68	106			0,25
005780	50	80	130			0,29
005781	63	93	156			0,33
005782	75	105	180			0,36
005783	80	110	190			0,38
005784	100	130	230			0,44
005785	125	155	280			0,51



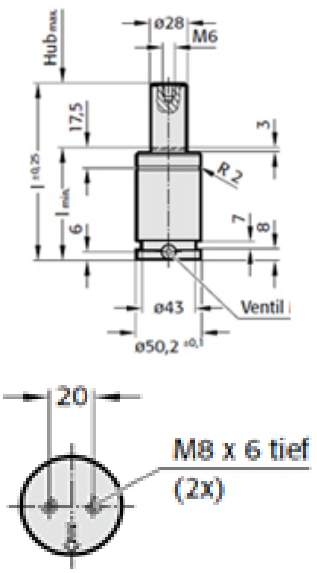
MG 500–Gazlı Yay

Sip No.	Kurs	Kurs	L	İlk Kuvvet	Son Kuvvet	kg
005786	10	40	50			0,24
005787	13	43	56			0,25
005788	16	46	62			0,26
005789	19	49	68			0,28
005790	25	55	80			0,31
005791	32	62	94			0,34
005792	38	68	106	500 KG	770 KG	0,37
005793	50	80	130			0,42
005794	63	93	156			0,48
005795	75	105	180			0,54
005796	80	110	190			0,56
005797	100	130	230			0,66
005798	125	155	280			0,77



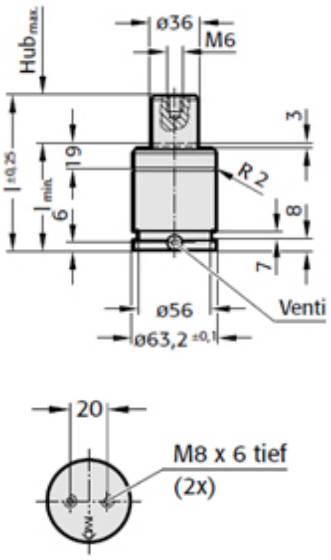
MG 750–Gazlı Yay

Sip No.	Kurs	Kurs	L	İlk Kuvvet	Son Kuvvet	kg
005799	10	42	52			0,36
005800	13	45	58			0,38
005801	16	48	64			0,39
005802	19	51	70			0,41
005803	25	57	82			0,45
005804	32	64	96			0,50
005805	38	70	108	750 KG	1200 KG	0,54
005806	50	82	132			0,61
005807	63	95	158			0,70
005808	75	107	182			0,77
005809	80	112	192			0,81
005810	100	132	232			0,93
005811	125	157	282			1,10



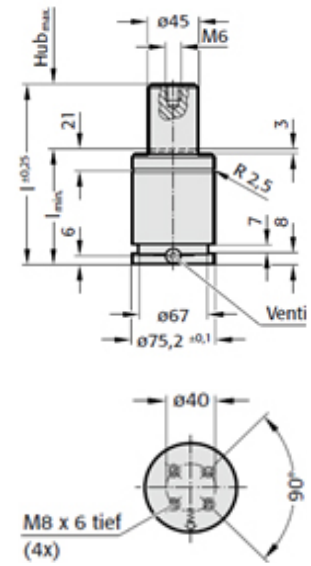
MG 1000–Gazlı Yay

Sip No.	Kurs	Kurs	L	İlk Kuvvet	Son Kuvvet	kg
005812	13	51	64			0,51
005813	16	54	70			0,54
005814	19	57	76			0,56
005815	25	63	88			0,61
005816	32	70	102			0,67
005817	38	76	114			0,71
005818	50	88	138	1000 KG	1550 KG	0,81
005819	63	101	164			0,91
005820	75	113	188			1,05
005821	80	118	198			1,09
005822	100	138	238			1,21
005823	125	163	288			1,41



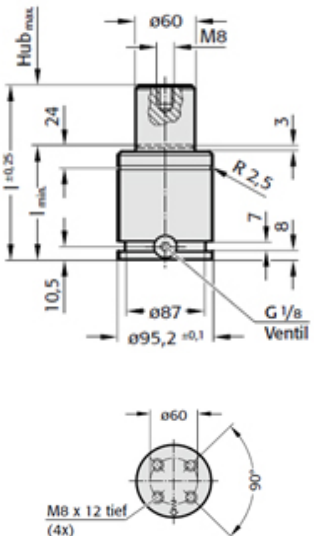
MG 1500–Gazlı Yay

Sip No.	Kurs	Kurs	L	İlk Kuvvet	Son Kuvvet	kg
005824	13	57	70	1500 KG	2400 KG	0,92
005825	16	60	76			0,96
005826	19	63	82			0,99
005827	25	69	94			1,06
005828	32	76	108			1,14
005829	38	82	120			1,21
005830	50	94	144			1,35
005831	63	107	170			1,51
005832	75	119	194			1,65
005833	80	124	204			1,71
005834	100	144	244			1,94
005835	125	169	294			2,23



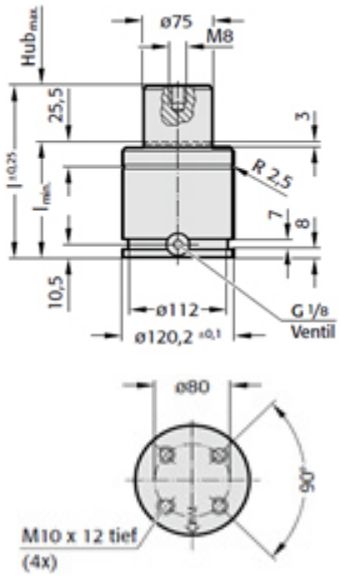
MG 2400–Gazlı Yay

Sip No.	Kurs	Kurs	L	İlk Kuvvet	Son Kuvvet	kg
005836	16	61	77	2400 KG	3840 KG	1,36
005837	19	64	83			1,40
005838	25	70	95			1,50
005839	32	77	109			1,61
005840	38	83	121			1,70
005841	50	95	145			1,89
005842	63	108	171			2,09
005843	75	120	195			2,28
005844	80	125	205			2,36
005845	100	145	245			2,67
005846	125	170	295			3,07



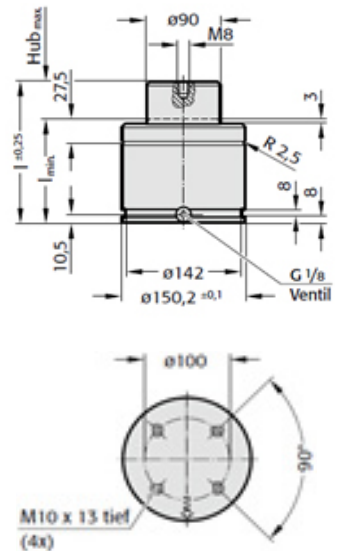
MG 4200–Gazlı Yay

Sip No.	Kurs	Kurs	L	İlk Kuvvet	Son Kuvvet	kg
005847	16	74	90	4200 KG	6700 KG	2,76
005848	19	77	96			2,83
005849	25	83	108			2,98
005850	32	90	122			3,16
005851	38	96	134			3,30
005852	50	108	158			3,60
005853	63	121	184			3,93
005854	75	133	208			4,20
005855	80	138	218			4,35
005856	100	158	258			4,85
005857	125	183	308			5,47



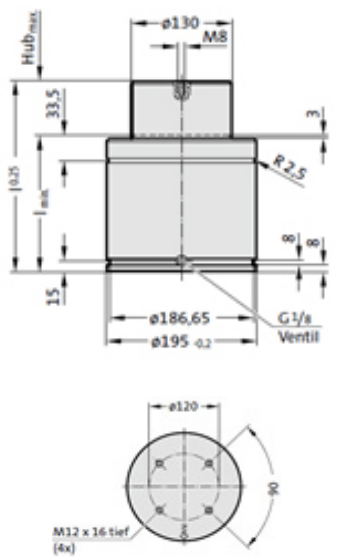
MG 6600–Gazlı Yay

Sip No.	Kurs	Kurs	L	İlk Kuvvet	Son Kuvvet	kg
005858	16	84	100	6600 KG	9900 KG	5,06
005859	19	87	106			5,17
005860	25	93	118			5,42
005861	32	100	132			5,69
005862	38	106	144			5,93
005863	50	118	168			6,40
005864	63	131	194			6,90
005865	75	143	218			7,40
005866	80	148	228			7,60
005867	100	168	268			8,40
005868	125	193	318			9,40



MG 9500–Gazlı Yay

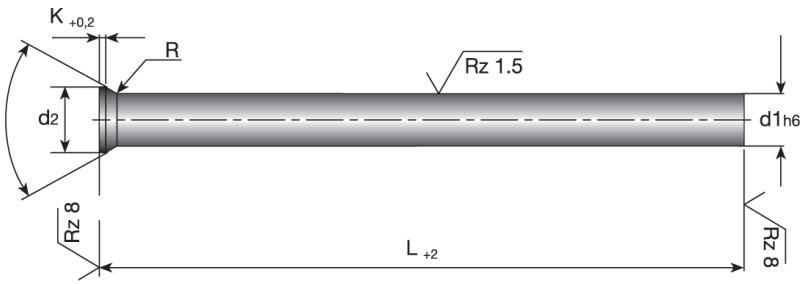
Sip No.	Kurs	Kurs	L	İlk Kuvvet	Son Kuvvet	kg
005869	19	97	116	9500 KG	14250 KG	9,51
005870	25	103	128			9,90
005871	32	110	142			10,30
005872	38	116	154			10,70
005873	50	128	178			11,40
005874	63	141	204			12,20
005875	75	153	228			13,00
005876	80	158	238			13,30
005877	100	178	278			14,60
005878	125	203	328			16,10



MG 20000–Gazlı Yay

Sip No.	Kurs	Kurs	L	İlk Kuvvet	Son Kuvvet	kg
005879	19	129	148	2000 KG	3000 KG	21,60
005880	25	135	160			22,30
005881	32	142	174			23,10
005882	38	148	186			23,90
005883	50	160	210			25,30
005884	63	173	236			26,80
005885	75	185	260			28,40
005886	80	190	270			28,80
005887	100	210	310			31,20
005888	125	235	360			34,20





Havşa Başlı Zımba

Malzeme :Yüksek Hız Çeliği 1.3343
Sertlik :60/62 HRC–Kafa 45+5 HRC
Yüzey :Sertleştirilmiş, Taşlanmış

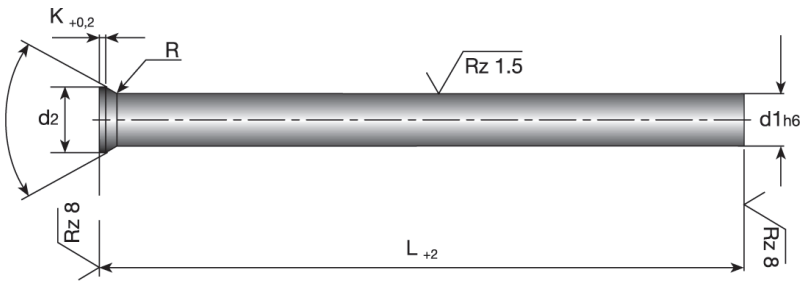
Sip. No	d1	d2	K	L
005889	0.5	0.9	0.2	71
005890				80
005891				100
005892	0.6	1.1	0.2	71
005893				80
005894				100
005895	0.7	1.3	0.2	71
005896				80
005897				100
005898	0.8	1.4	0.4	71
005899				80
005900				100
005901	0.9	1.6	0.4	71
005902				80
005903				100
005904	1	1.8	0.5	71
005905				80
005906				100
005907	1.1	1.8	0.5	71
005908				80
005909				100
005910	1.2	2	0.5	71
005911				80
005912				100
005913	1.3	2	0.5	71
005914				80
005915				100
005916	1.4	2.2	0.5	71
005917				80
005918				100
005919	1.5	2.2	0.5	71
005920				80
005921				100
005922	1.6	2.5	0.5	71
005923				80
005924				100
005925	1.7	2.5	0.5	71
005926				80
005927				100
005928	1.8	2.8	0.5	71
005929				80
005930				100
005931	1.9	2.8	0.5	71
005932				80
005933				100
005934	2	3	0.5	71
005935				80

Sip. No	d1	d2	K	L
005936	2	3	0.5	100
005937				125
005938				160
005939	2.1	3.2	0.5	71
005940				80
005941				100
005942	2.2	3.2	0.5	71
005943				80
005944				100
005945	2.3	3.5	0.5	71
005946				80
005947				100
005948	2.4	3.5	0.5	71
005949				80
005950				100
005951	2.5	3.5	0.5	71
005952				80
005953				100
005954				125
005955				160
005956	2.6	4	0.5	71
005957				80
005958				100
005959	2.7	4	0.5	71
005960				80
005961				100
005962	2.8	4	0.5	71
005963				80
005964				100
005965	2.9	4	0.5	71
005966				80
005967				100
005968	3	4.5	0.5	71
005969				80
005970				100
005971				125
005972				160
005973	3.1	4.5	0.5	71
005974				80
005975				100
005976	3.2	4.5	0.5	71
005977				80
005978				100
005979	3.3	4.5	0.5	71
005980				80
005981				100
005982	3.4	4.5	0.5	71

Sip. No	d1	d2	K	L
005983	3.4	4.5	0.5	80
005984				100
005985	3.5	5	0.5	71
005986				80
005987				100
005988				125
005989				160
005990	3.6	5	0.5	71
005991				80
005992				100
005993	3.7	5	0.5	71
005994				80
005995				100
005996	3.8	5	0.5	71
005997				80
005998				100
005999	3.9	5	0.5	71
006000				80
006001				100
006002	4	5.5	0.5	71
006003				80
006004				100
006005				125
006006				160
006007	4.1	5.5	0.5	71
006008				80
006009				100
006010	4.2	5.5	0.5	71
006011				80
006012				100
006013	4.3	5.5	0.5	71
006014				80
006015				100
006016	4.4	5.5	0.5	71
006017				80
006018				100
006019	4.5	6	0.5	71
006020				80
006021				100
006022				125
006023				160
006024	4.6	6	0.5	71
006025				80
006026				100
006027	4.7	6	0.5	71
006028				80
006029				100

Sip. No	d1	d2	K	L
006030	4.8	6	0.5	71
006031				80
006032				100
006033	4.9	6	0.5	71
006034				80
006035				100
006036	5	6.5	0.5	71
006037				80
006038				100
006039				125
006040				160
006041	5.1	6.5	0.5	71
006042				80
006043				100
006044	5.2	6.5	0.5	71
006045				80
006046				100
006047	5.3	6.5	0.5	71
006048				80
006049				100
006050	5.4	6.5	0.5	71
006051				80
006052				100
006053	5.5	7	0.5	71
006054				80
006055				100
006056				125
006057				160
006058	5.6	7	0.5	71
006059				80
006060				100
006061	5.7	7	0.5	71
006062				80
006063				100
006064	5.8	7	0.5	71
006065				80
006066				100
006067	5.9	7	0.5	71
006068				80
006069				100
006070	6	8	0.5	71
006071				80
006072				100
006073				125
006074				160
006075	6.1	8	0.5	71
006076				80
006077				100





Havşa Başlı Zımba

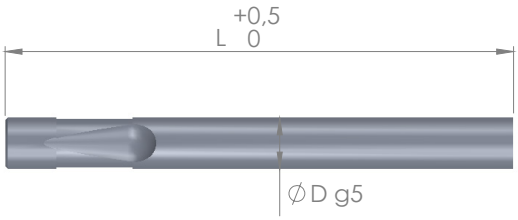
Malzeme :Yüksek Hız Çeliği 1.3343
Sertlik :60/62 HRC–Kafa 45+5 HRC
Yüzey :Sertleştirilmiş, Taşlanmış

Sip. No	d1	d2	K	L
006078				71
006079	6.2	8	0.5	80
006080				100
006081				71
006082	6.3	8	0.5	80
006083				100
006084				71
006085	6.4	8	0.5	80
006086				100
006087				71
006088				80
006089	6.5	9	1	100
006090				125
006091				160
006092				71
006093	6.6	9	1	80
006094				100
006095				71
006096	6.7	9	1	80
006097				100
006098				71
006099	6.8	9	1	80
006100				100
006101				71
006102	6.9	9	1	80
006103				100
006104				71
006105				80
006106	7	9	1	100
006107				125
006108				160
006109				71
006110	7.1	9	1	80
006111				100
006112				71
006113	7.2	9	1	80
006114				100
006115				71
006116	7.3	9	1	80
006117				100
006118				71
006119	7.4	9	1	80
006120				100
006121				71
006122				80
006123	7.5	10	1	100
006124				125
006125				160

Sip. No	d1	d2	K	L
006126				71
006127	7.6	10	1	80
006128				100
006129				71
006130	7.7	10	1	80
006131				100
006132				71
006133	7.8	10	1	80
006134				100
006135				71
006136	7.9	10	1	80
006137				100
006138				71
006139				80
006140	8	10	1	100
006141				125
006142				160
006143				71
006144	8.1	10	1	80
006145				100
006146				71
006147	8.2	10	1	80
006148				100
006149				71
006150	8.3	10	1	80
006151				100
006152				71
006153	8.4	10	1	80
006154				100
006155				71
006156				80
006157	8.5	11	1	100
006158				125
006159				160
006160				71
006161	8.6	11	1	80
006162				100
006163				71
006164	8.7	11	1	80
006165				100
006166				71
006167	8.8	11	1	80
006168				100
006169				71
006170	8.9	11	1	80
006171				100
006172	9	11	1	71
006173				80

Sip. No	d1	d2	K	L
006174				100
006175	9	11	1	125
006176				160
006177				71
006178	9.1	11	1	80
006179				100
006180				71
006181	9.2	11	1	80
006182				100
006183				71
006184	9.3	11	1	80
006185				100
006186				71
006187	9.4	11	1	80
006188				100
006189				125
006190				71
006191				80
006192	9.5	12	1	100
006193				125
006194				160
006195				71
006196				80
006197	10	12	1	100
006198				125
006199				160
006200				71
006201				80
006202	10.5	13	1	100
006203				125
006204				160
006205				71
006206				80
006207	11	13	1	100
006208				125
006209				160
006210				71
006211				80
006212	11.5	14	1	100
006213				125
006214				160
006215				71
006216				80
006217	12	14	1	100
006218				125
006219				160
006220	12.5	15	1	71
006221				80

Sip. No	d1	d2	K	L
006222				100
006223	12.5	15	1	125
006224				160
006225				71
006226				80
006227	13	15	1	100
006228				125
006229				160
006230				71
006231				80
006232	13.5	16	1.5	100
006233				125
006234				160
006235				71
006236				80
006237	14	16	1.5	100
006238				125
006239				160
006240				71
006241				80
006242	14.5	17	1.5	100
006243				125
006244				160
006245				71
006246				80
006247	15	17	1.5	100
006248				125
006249				160
006250				71
006251				80
006252	16	18	1.5	100
006253				125
006254				160
006255				71
006256				80
006257	17	19	1.5	100
006258				125
006259				160
006260				71
006261				80
006262	18	20	1.5	100
006263				125
006264				160
006265				71
006266				80
006267	20	22	1.5	100
006268				125
006269				160



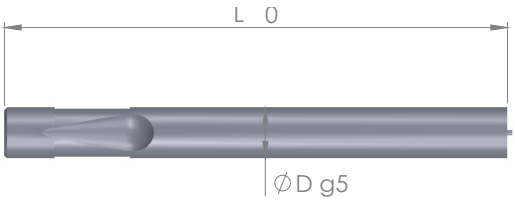
DBD / UBD–Bilyalı Düz Zımba

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

DBD–Hafif Yükler
UBD–Ağır Yükler

Termin süresi 1 haftadır.

Sip. No		D	L						
			63	71	80	90	100	110	125
DBD / UBD	10	10	•	•	•	•	•	•	•
	13	13	•	•	•	•	•	•	•
	16	16	•	•	•	•	•	•	•
	20	20	•	•	•	•	•	•	•
	25	25		•	•	•	•	•	•
	32	32		•	•	•	•	•	•
	40	40			•	•	•	•	•



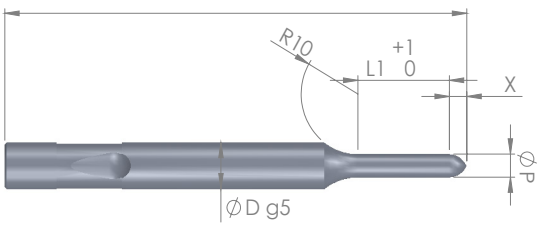
DBF / UBF–Bilyalı Fırlatıcılı Düz Zımba

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

DBF–Hafif Yükler
UBF–Ağır Yükler

Termin süresi 1 haftadır.

Sip. No		D	L						
			63	71	80	90	100	110	125
DBD / UBD	10	10	•	•	•	•	•	•	•
	13	13	•	•	•	•	•	•	•
	16	16	•	•	•	•	•	•	•
	20	20	•	•	•	•	•	•	•
	25	25		•	•	•	•	•	•
	32	32		•	•	•	•	•	•
	40	40			•	•	•	•	•



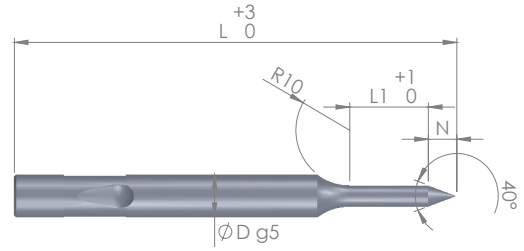
DBD / UBD–Bilyalı Kademeli Pilot Zımba

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

DBPP–Hafif Yükler
UBPP–Ağır Yükler

Termin süresi 1 haftadır.

Sip. No		D	L1			TİP D		Kademe P	L						
			Std.	Alt.	Alt.				65	73	82	92	102	112	127
DBPP / UBPP	10	10.0	21	12*	–	DBPP / UBPP	10	2.05 ~ 10.0	•	•	•	•	•	•	•
	13	13.0		15	27		13	4.95 ~ 13.0	•	•	•	•	•	•	•
	16	16.0					16	7.95 ~ 16.0	•	•	•	•	•	•	•
	20	20.0					20	11.95 ~ 20.0		•	•	•	•	•	•
	25	25.0					25	15.95 ~ 25.0		•	•	•	•	•	•
	32	32.0					32	23.95 ~ 32.0				•	•	•	•
	40	40.0	27	21	32		40	29.95 ~ 40.0						•	•



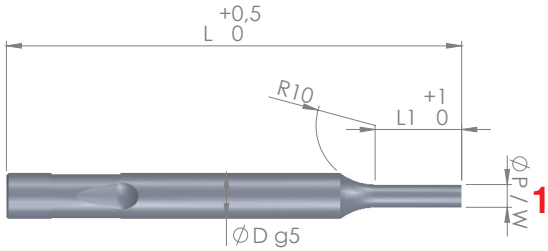
DBPS / UBPS–Bilyalı Kademeli Pilot Zımba

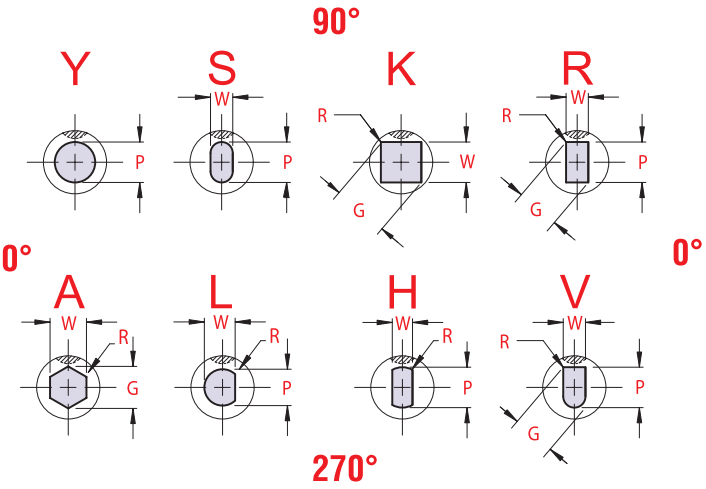
Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

DBPS–Hafif Yükler
UBPS–Ağır Yükler

Termin süresi 1 haftadır.

Sip. No		D	L1		TİP D		Kademe P	N	L							
			Std.	Alt.					71	80	90	100	110	125	140	150
DBPS / UBPS	10	10.0	19	32	DBPS / UBPS	10	5.00 ~ 10.0	10.0	•	•	•	•	•			
	13	13.0				13	9.00 ~ 13.0	13.0	•	•	•	•	•	•	•	
	16	16.0	25	38		16	12.0 ~ 16.0	16.0	•	•	•	•	•	•	•	•
	20	20.0				20	15.0 ~ 20.0	20.0	•	•	•	•	•	•	•	•
	25	25.0				25	19.0 ~ 25.0	25.0	•	•	•	•	•	•	•	•
	32	32.0				32	24.0 ~ 32.0	32.0		•	•	•	•	•	•	•
	38	38.0	30	45		38	30.0 ~ 38.0	38.0		•	•	•	•	•	•	•





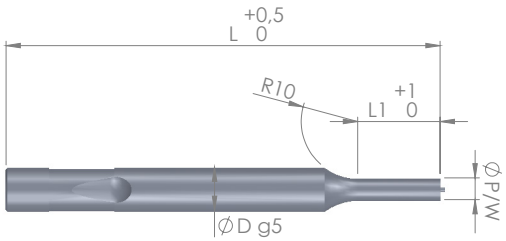
DBD / UBD–Bilyalı Kademeli Zımba

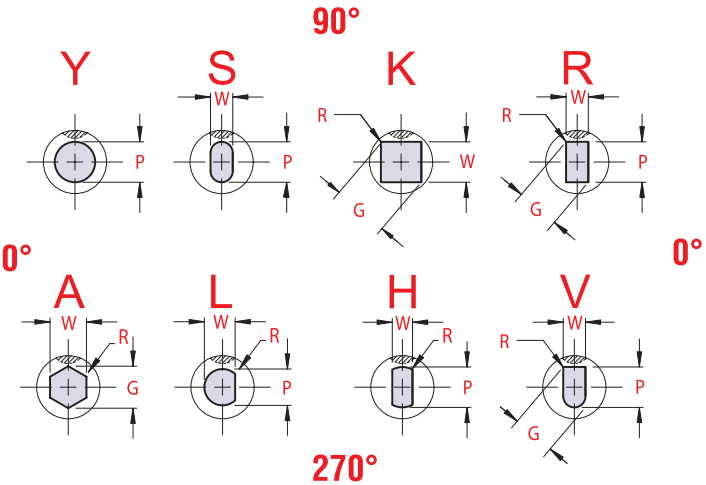
Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

DBD–Hafif Yükler UBD–Ağır Yükler

Termin süresi 1 haftadır.

Sip. No		D	L1			TİP D		Kademe P	TİP D		FORM MİN.	FORM MAX.	L						
			Std.	Alt.	Alt.						W	P/G	63	71	80	90	100	110	125
DBD / UBD	10	10.0	19	10*	-	DBDY / UBDY	10	2.10 ~ 9.97	DBD_ / UBD_	10	2.10	9.97	•	•	•	•	•		
	13	13.0		13	25		13	5.00 ~ 12.97		13	4.50	12.97	•	•	•	•	•	•	•
	16	16.0					16	8.00 ~ 15.97		16	6.00	15.97	•	•	•	•	•	•	•
	20	20.0					20	12.0 ~ 19.97		20	8.00	19.97	•	•	•	•	•	•	•
	25	25.0					25	16.0 ~ 24.97		25	10.0	24.97		•	•	•	•	•	•
	32	32.0					32	24.0 ~ 31.97		32	12.5	31.97		•	•	•	•	•	•
	40	40.0	25	19	30		40	30.0 ~ 39.97		40	14.0	39.97			•	•	•	•	•





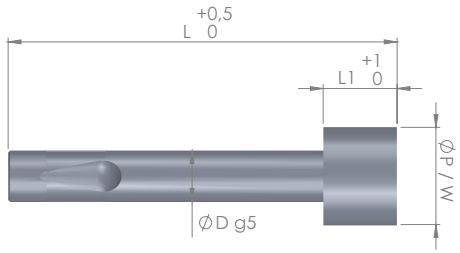
DBF / UBF–Bilyalı Kademeli Zımba Fırlatıcılı

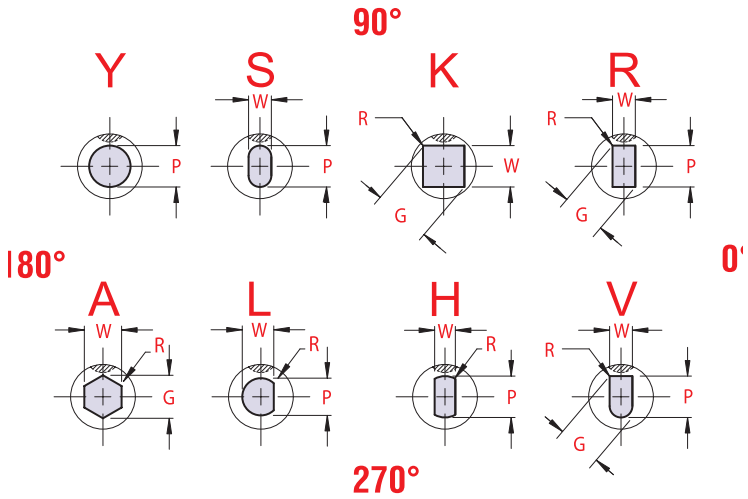
Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

DBF–Hafif Yükler UBF–Ağır Yükler

Termin süresi 1 haftadır.

Sip. No		D	L1			TİP D		Kademe P	TİP D		FORM MİN.	FORM MAX.	L							İtici Pim
			Std.	Alt.	Alt.						W	P/G	63	71	80	90	100	110	125	
DBF / UBF	10	10.0	19	10*	-	DBFY / UBFY	10	2.10 ~ 9.97	DBF_ / UBF_	10	2.10	9.97	•	•	•	•	•			J4M
	13	13.0		13	25		13	5.00 ~ 12.97		13	4.50	12.97	•	•	•	•	•	•	•	J6M
	16	16.0					16	8.00 ~ 15.97		16	6.00	15.97	•	•	•	•	•	•	•	J6M
	20	20.0					20	12.0 ~ 19.97		20	8.00	19.97	•	•	•	•	•	•	•	J9M
	25	25.0					25	16.0 ~ 24.97		25	10.0	24.97		•	•	•	•	•	•	J9M
	32	32.0					32	24.0 ~ 31.97		32	12.5	31.97		•	•	•	•	•	•	J12M
	40	40.0	25	19	30		40	30.0 ~ 39.97		40	14.0	39.97			•	•	•	•	•	J12M





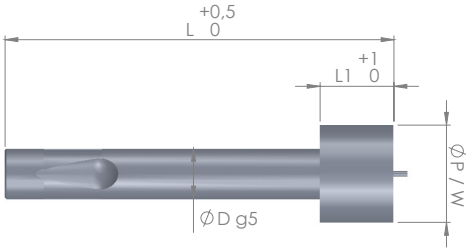
DBKD / UBKD–Ucu Kalın Bilyalı Zımba

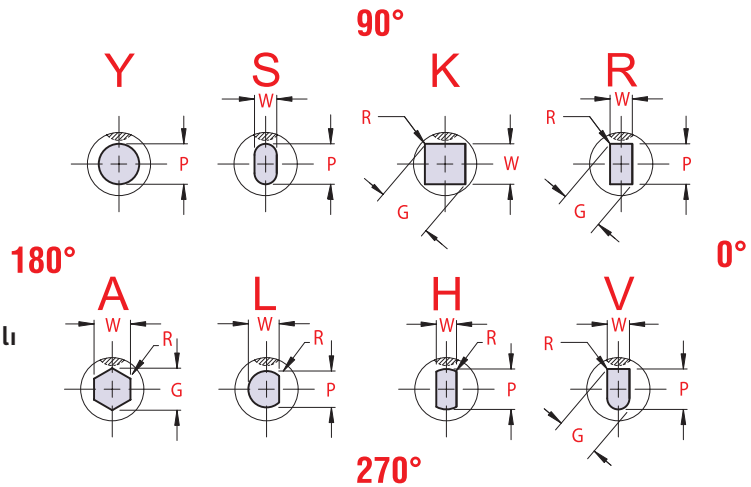
Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

DBKD–Hafif Yükler UBKD–Ağır Yükler

Termin süresi 1 haftadır.

Sip. No		L1		TİP D		Kademe P	TİP D		ŞEKİL		L		
		Std.	Alt.						W	P/G	80	90	100
DBKD / UBKD	13	19	30	DBKDY / UBKDY	13	13.1 ~ 32.0	DBKD_ / UBKD_	13	5	32	•	•	•
	16				16	16.1 ~ 38.0		16	6	38	•	•	•
	20				20	20.1 ~ 40.0		20	8	40	•	•	•
	25				25	25.1 ~ 44.0		25	10	44	•	•	•
	32				32	32.1 ~ 50.0		32	11.5	50	•	•	•
	40				40	40.1 ~ 56.0		40	14	56	•	•	•





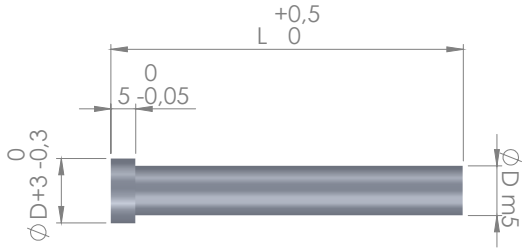
DBKF / UBKF–Ucu Kalın Bilyalı Zımba Fırlatıcılı

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

DBKF–Hafif Yükler UBKF–Ağır Yükler

Termin süresi 1 haftadır.

Sip. No		L1		TİP D		Kademe P	TİP D		ŞEKİL		L			İtici Pim
		Std.	Alt.						W	P/G	80	90	100	
DBKF / UBKF	13	19	30	DBKFY / UBKFY	13	13.1 ~ 32.0	DBKF_ / UBKF_	13	5	32	•	•	•	J6M
	16				16	16.1 ~ 38.0		16	6	38	•	•	•	J6M
	20				20	20.1 ~ 40.0		20	8	40	•	•	•	J9M
	25				25	25.1 ~ 44.0		25	10	44	•	•	•	J9M
	32				32	32.1 ~ 50.0		32	11.5	50	•	•	•	J12M
	40				40	40.1 ~ 56.0		40	14	56	•	•	•	J12M

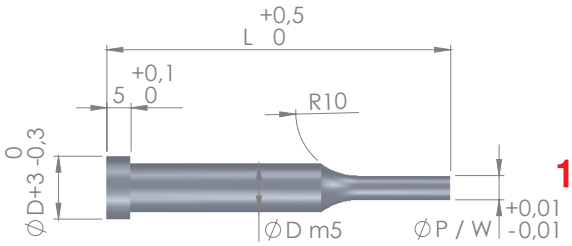


DSZ–Silindir Başlı Düz Zımba

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

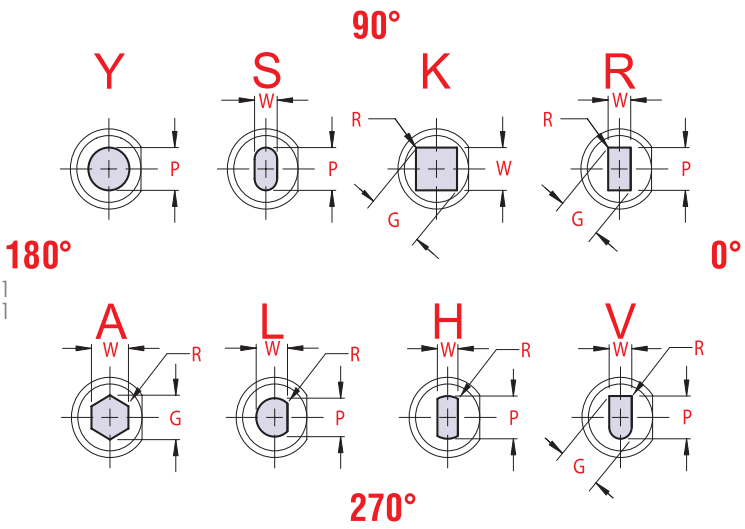
Termin süresi 1 haftadır.

D	TİP D	L							
		63	71	80	90	100	110	120	130
4.00	DSZ	•	•	•	•	•			
5.00	DSZ	•	•	•	•	•			
6.00	DSZ	•	•	•	•	•	•		
8.00	DSZ	•	•	•	•	•	•	•	
10.0	DSZ	•	•	•	•	•	•	•	
13.0	DSZ	•	•	•	•	•	•	•	•
16.0	DSZ	•	•	•	•	•	•	•	•
20.0	DSZ	•	•	•	•	•	•	•	•
25.0	DSZ	•	•	•	•	•	•	•	•
32.0	DSZ	•	•	•	•	•	•	•	•



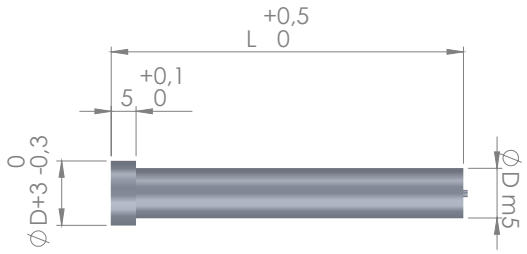
DKK–Silindir Başlı Kademeli Zımba

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC



Termin süresi 1 haftadır.

D	L1		TİP D	Kademe P	TİP D	ŞEKİL		L				
	Std.	Alt.				W	P/G	63	71	80	90	100
4.00	8	13	DKK 04	1.60 ~ 3.95	DKK_04	1.60	3.95	•	•	•	•	•
5.00	13	19	DKK 05	1.60 ~ 4.95	DKK_05	1.60	4.95	•	•	•	•	•
6.00			DKK 06	1.60 ~ 5.95	DKK_06	1.60	5.95	•	•	•	•	•
8.00	19	25	DKK 08	2.50 ~ 7.95	DKK_08	2.50	7.95	•	•	•	•	•
10.0			DKK 10	3.20 ~ 9.95	DKK_10	3.20	9.95	•	•	•	•	•
13.0			DKK 13	5.00 ~ 12.95	DKK_13	5.00	12.95	•	•	•	•	•
16.0			DKK 16	8.00 ~ 15.95	DKK_16	8.00	15.95	•	•	•	•	•
20.0			DKK 20	10.0 ~ 19.95	DKK_20	10.0	19.95	•	•	•	•	•
25.0			DKK 25	12.0 ~ 24.95	DKK_25	12.0	24.95	•	•	•	•	•
32.0	25	30	DKK 32	16.0 ~ 31.95	DKK_32	16.0	31.95	•	•	•	•	•

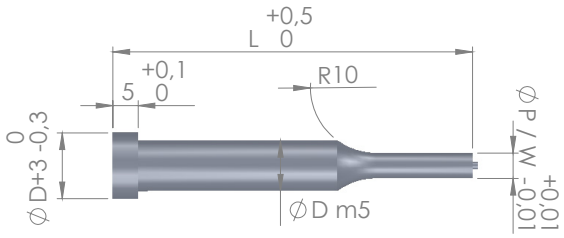


DSF–Silindir Başlı Zımba Fırlatıcılı

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

Termin süresi 1 haftadır.

Sip. No	D	TİP D	L								İtici Pim
			63	71	80	90	100	110	120	130	
DSF 04	4.00	DSF	•	•	•	•	•				J2M
DSF 05	5.00	DSF	•	•	•	•	•				J3M
DSF 06	6.00	DSF	•	•	•	•	•	•			J4M
DSF 08	8.00	DSF	•	•	•	•	•	•	•		J6M
DSF 10	10.0	DSF	•	•	•	•	•	•	•		J6M
DSF 13	13.0	DSF	•	•	•	•	•	•	•	•	J9M
DSF 16	16.0	DSF	•	•	•	•	•	•	•	•	J9M
DSF 20	20.0	DSF	•	•	•	•	•	•	•	•	J9M
DSF 25	25.0	DSF	•	•	•	•	•	•	•	•	J12M
DSF 32	32.0	DSF	•	•	•	•	•	•	•	•	J12M

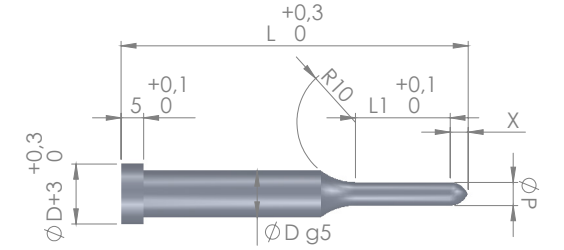


DSZ–Silindir Başlı Kademeli Zımba Fırlatıcılı

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

Termin süresi 1 haftadır.

Sip. No	D	L1		Kademe P	ŞEKİL		L					İtici Pim
		Std.	Alt.		W	P/G	63	71	80	90	100	
DSF 05	5.00	13	19	1.60 ~ 4.95	1.60	4.95	•	•	•			J2M
DSF 06	6.00			2.40 ~ 5.95	2.40	5.95	•	•	•	•	•	J3M
DSF 08	8.00	19	25	3.20 ~ 7.95	3.20	7.95	•	•	•	•	•	J4M
DSF 10	10.0			4.50 ~ 9.95	4.50	9.95	•	•	•	•	•	J6M
DSF 13	13.0			6.00 ~ 12.95	6.00	12.95	•	•	•	•	•	J6M
DSF 16	16.0			8.00 ~ 15.95	8.00	15.95	•	•	•	•	•	J9M
DSF 20	20.0			10.0 ~ 19.95	10.0	19.95	•	•	•	•	•	J9M
DSF 25	25.0			12.0 ~ 24.95	12.0	24.95	•	•	•	•	•	J9M
DSF 32	32.0	25	30	16.0 ~ 31.95	16.0	31.95	•	•	•	•	•	J12M

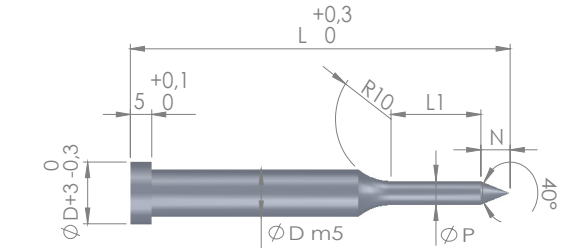


DSP–Silindir Başlı Pilot Zımba

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

Termin süresi 1 haftadır.

Sip. No	D	L1		Kademe P	L									
		Std.	Alt.		42	52	58	62	65	72	73	82	92	102
DSP 04	4.00	10	15	1.55 ~ 4.00	•	•	•	•	•	•	•	•		
DSP 05	5.00	15	21	1.55 ~ 5.00	•	•	•	•	•	•	•	•		
DSP 06	6.00			1.55 ~ 6.00	•	•	•	•	•	•	•	•	•	•
DSP 08	8.00	21	27	2.45 ~ 8.00		•	•	•	•	•	•	•	•	•
DSP 10	10.0			3.15 ~ 10.0		•	•	•	•	•	•	•	•	•
DSP 13	13.0			4.95 ~ 13.0		•	•	•	•	•	•	•	•	•
DSP 16	16.0			7.95 ~ 16.0		•	•	•	•	•	•	•	•	•
DSP 20	20.0			9.95 ~ 20.0			•	•	•	•	•	•	•	•
DSP 25	25.0			11.95 ~ 25.0			•	•	•	•	•	•	•	•
DSP 32	32.0	27	32	15.95 ~ 32.0					•	•	•	•	•	•

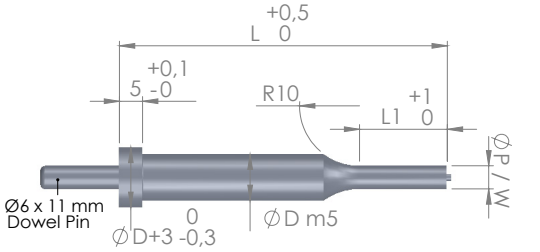


DKK–Silindir Başlı Pilot Zımba

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

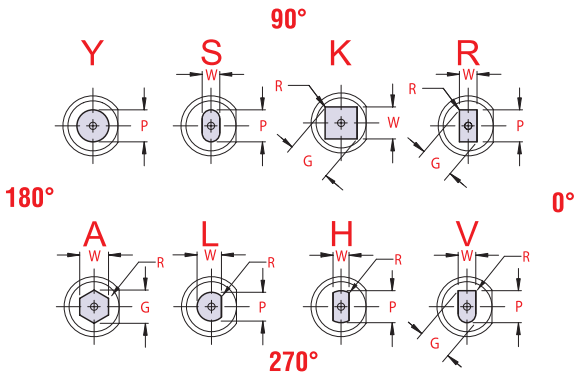
Termin süresi 1 haftadır.

Sip. No	D	L1		Kademe P	L									
		Std.	Alt.		42	52	58	62	65	72	73	82	92	102
DKK 04	4.00	10	15	1.55 ~ 4.00	•	•	•	•	•	•	•	•		
DKK 05	5.00	15	21	1.55 ~ 5.00	•	•	•	•	•	•	•	•		
DKK 06	6.00			1.55 ~ 6.00	•	•	•	•	•	•	•	•	•	•
DKK 08	8.00	21	27	2.45 ~ 8.00		•	•	•	•	•	•	•	•	•
DKK 10	10.0			3.15 ~ 10.0		•	•	•	•	•	•	•	•	•
DKK 13	13.0			4.95 ~ 13.0		•	•	•	•	•	•	•	•	•
DKK 16	16.0			7.95 ~ 16.0		•	•	•	•	•	•	•	•	•
DKK 20	20.0			9.95 ~ 20.0			•	•	•	•	•	•	•	•
DKK 25	25.0			11.95 ~ 25.0			•	•	•	•	•	•	•	•
DKK 32	32.0	27	32	15.95 ~ 32.0					•	•	•	•	•	•



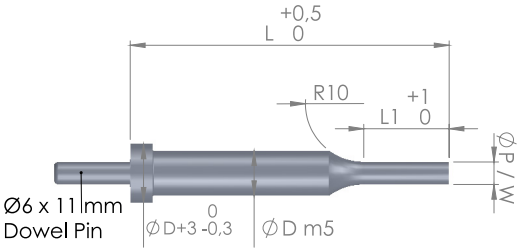
DPF–Silindir Başlı Kademeli Zımba Merkez Pimli

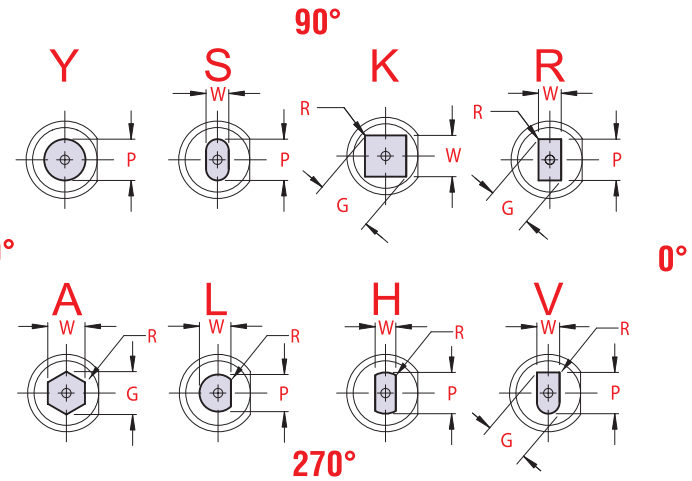
Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC



Termin süresi 1 haftadır.

Sip. No	D	L1		TİP D	Kademe P	TİP D	ŞEKİL		L						İtici Pim
		Std.	Alt.				W	P/G	71	80	90	100	110	120	130	
DPFY 10	10.0	19	25	DPFY 10	4.50 ~ 9.95	DPF_10	4.50	9.95	•	•	•	•	•	•	•	J6M
DPFY 13	13.0			DPFY 13	6.00 ~ 12.95	DPF_13	6.00	12.95	•	•	•	•	•	•	•	J6M
DPFY 16	16.0			DPFY 16	8.00 ~ 15.95	DPF_16	8.00	15.95	•	•	•	•	•	•	•	J9M
DPFY 20	20.0			DPFY 20	10.0 ~ 19.95	DPF_20	10.0	19.95	•	•	•	•	•	•	•	J9M
DPFY 25	25.0			DPFY 25	12.0 ~ 24.95	DPF_25	12.0	24.95	•	•	•	•	•	•	•	J9M
DPFY 32	32.0	25	30	DPFY 32	16.0 ~ 31.95	DPF_32	16.0	31.95	•	•	•	•	•	•	•	J9M



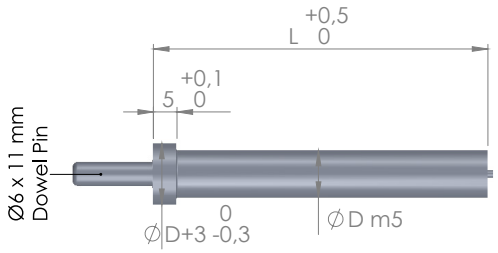


DPS–Silindir Başlı Kademeli Zımba Merkez Pimli

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

Termin süresi 1 haftadır.

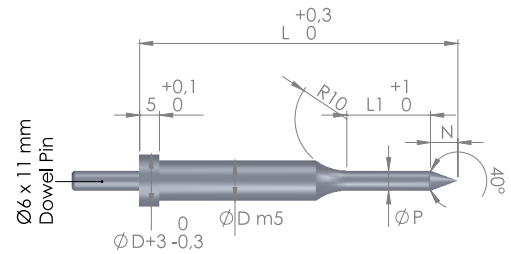
Sip. No	D	L1		TİP D	Kademe P	TİP D	ŞEKİL		L						
		Std.	Alt.				W	P/G	71	80	90	100	110	120	130
DPS 10	10.0	19	25	DPSY 10	4.50 ~ 9.95	DPS_10	4.50	9.95	•	•	•	•	•	•	•
DPS 13	13.0			DPSY 13	6.00 ~ 12.95	DPS_13	6.00	12.95	•	•	•	•	•	•	•
DPS 16	16.0			DPSY 16	8.00 ~ 15.95	DPS_16	8.00	15.95	•	•	•	•	•	•	•
DPS 20	20.0			DPSY 20	10.0 ~ 19.95	DPS_20	10.0	19.95	•	•	•	•	•	•	•
DPS 25	25.0			DPSY 25	12.0 ~ 24.95	DPS_25	12.0	24.95	•	•	•	•	•	•	•
DPS 32	32.0	25	30	DPSY 32	16.0 ~ 31.95	DPS_32	16.0	31.95	•	•	•	•	•	•	•



DPF–Silindir Başlı Zımba Merkez Pimli

Termin süresi 1 haftadır.

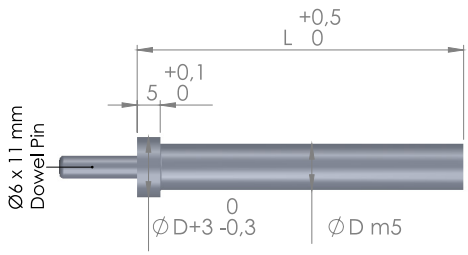
Sip. No	D	L								İtici Pim
		63	71	80	90	100	110	120	130	
DPF 10	10.0	•	•	•	•	•	•	•	•	J6M
DPF 13	13.0	•	•	•	•	•	•	•	•	J6M
DPF 16	16.0	•	•	•	•	•	•	•	•	J9M
DPF 20	20.0	•	•	•	•	•	•	•	•	J9M
DPF 25	25.0	•	•	•	•	•	•	•	•	J9M
DPF 32	32.0	•	•	•	•	•	•	•	•	J12M



DPZ–Silindir Başlı Zımba Merkez Pimli

Termin süresi 1 haftadır.

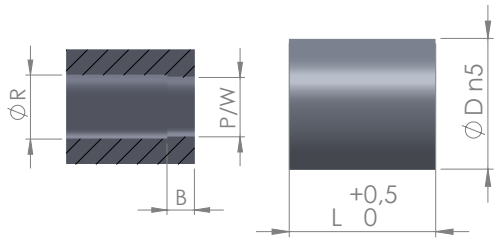
Sip. No	D	L1		Kademe P	Açı Boyu N	L						
		Std.	Alt.			71	80	90	100	110	120	130
DPZ 10	10.0	21	27	4.85 ~ 9.95	8	•	•	•	•	•	•	•
DPZ 13	13.0			6.30 ~ 12.95	10	•	•	•	•	•	•	•
DPZ 16	16.0			9.95 ~ 16.00	15	•	•	•	•	•	•	•
DPZ 20	20.0			13.60 ~ 20.0	20	•	•	•	•	•	•	•
DPZ 25	25.0			17.25 ~ 25.0	25	•	•	•	•	•	•	•
DPZ 32	32.0	27	32	20.85 ~ 32.0	30	•	•	•	•	•	•	•



DPP–Silindir Başlı Zımba Merkez Pimli

Termin süresi 1 haftadır.

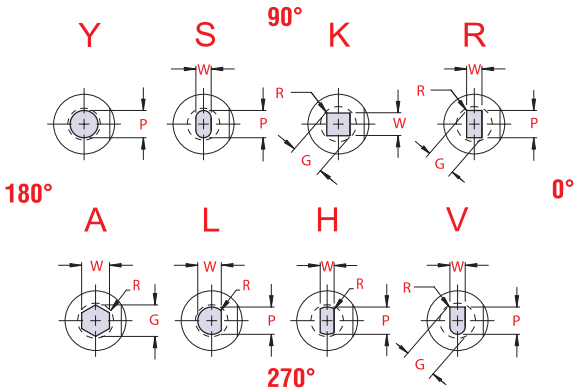
Sip. No	D	L						
		71	80	90	100	110	120	130
DPP 10	10.0	•	•	•	•	•	•	•
DPP 13	13.0	•	•	•	•	•	•	•
DPP 16	16.0	•	•	•	•	•	•	•
DPP 20	20.0	•	•	•	•	•	•	•
DPP 25	25.0	•	•	•	•	•	•	•
DPP 32	32.0	•	•	•	•	•	•	•

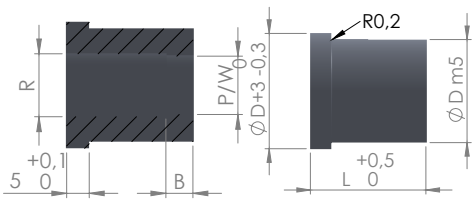


DDM–Düz Matris

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC



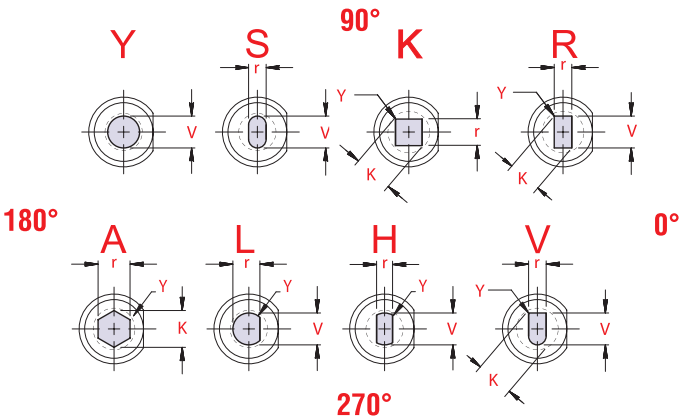




DSM–Şapkalı Matris

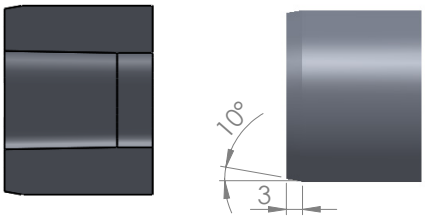
Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

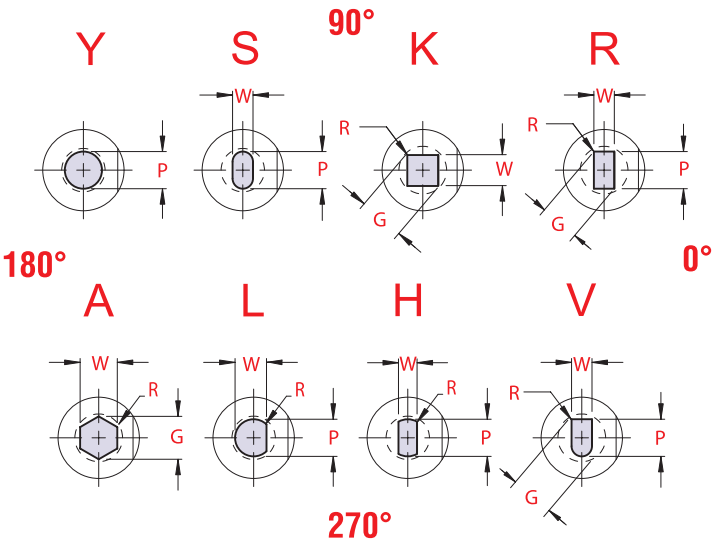




Termin süresi 1 haftadır.

D	B			KADEME P	FORM		R	L							
	Std. S	Alt. A	Alt. B		Min. W	Max. P/G		20	22	25	28	30	32	35	40
8.00	4	-	-	1.50 ~ 2.40	-	-	3.5	•	•	•	•	•	•	•	•
				2.41 ~ 3.00			4.0	•	•	•	•	•	•	•	•
		8		3.01 ~ 3.20				•	•	•	•	•	•	•	•
10.0	4	-	-	1.50 ~ 2.40	-	-	3.5	•	•	•	•	•	•	•	•
				2.41 ~ 3.00			4.0	•	•	•	•	•	•	•	•
		8		3.01 ~ 3.20	1.20	3.20		•	•	•	•	•	•	•	•
				3.21 ~ 5.00		5.00	6.0	•	•	•	•	•	•	•	•
13.0	5	-	-	1.50 ~ 2.40	-	-	3.5	•	•	•	•	•	•	•	•
				2.41 ~ 3.00			4.0	•	•	•	•	•	•	•	•
		8		3.01 ~ 3.20				•	•	•	•	•	•	•	•
				3.21 ~ 5.00	2.00	5.00	6.0	•	•	•	•	•	•	•	•
				5.01 ~ 7.20		7.20	8.0	•	•	•	•	•	•	•	•
16.0	5	8	-	5.00 ~ 7.20	2.40	7.20	8.0	•	•	•	•	•	•	•	•
				7.21 ~ 8.80		8.80	9.5	•	•	•	•	•	•	•	•
20.0	5	12	20	7.00 ~ 8.00	3.20	8.80	9.5	•	•	•	•	•	•	•	•
				8.81 ~ 11.00		11.00	12.0	•	•	•	•	•	•	•	•
22.0	6	12	20	9.00 ~ 14.00	4.00	14.00	15.0	•	•	•	•	•	•	•	•
25.0	6	12	20	11.00 ~ 14.00	4.80	14.00	15.0	•	•	•	•	•	•	•	•
				14.01 ~ 16.50		16.50	17.5	•	•	•	•	•	•	•	•
32.0	6	12	20	13.00 ~ 16.50	5.50	16.50	17.5	•	•	•	•	•	•	•	•
				16.51 ~ 20.00		20.00	21.0	•	•	•	•	•	•	•	•
38.0	8	12	20	16.00 ~ 20.00	6.40	20.00	21.0	•	•	•	•	•	•	•	•
				20.01 ~ 26.00		26.00	27.0	•	•	•	•	•	•	•	•
40.0	8	12	20	16.00 ~ 20.00	6.40	20.00	21.0	•	•	•	•	•	•	•	•
				20.01 ~ 26.00		26.00	27.0	•	•	•	•	•	•	•	•





DKM–Düz Bilyalı Matris

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

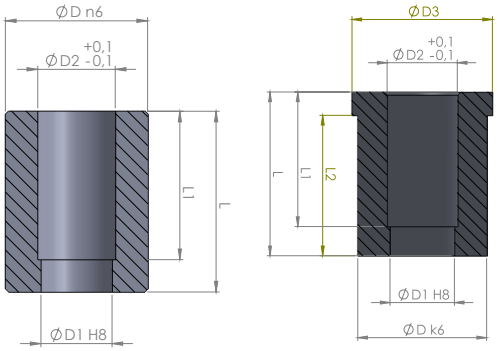
Termin süresi 1 haftadır.

D	B Std. S	B Alt. A	B Alt. B	KADEME P	FORM MİN. W	FORM MAX. P/G	L 13	L 16	L 20	L 22	L 25	L 28	L 30	L 32	L 35	L 40
10	4	5		1.60 ~ 6.80	1.30	6.80	•	•	•	•	•	•	•	•	•	
13	5	8		3.00 ~ 8.00	1.90	8.80	•	•	•	•	•	•	•	•	•	
16				7.40 ~ 10.80		10.80			•	•	•	•	•	•	•	
20		10		9.50 ~ 13.60		13.60			•	•	•	•	•	•	•	
22	6		3	10.50 ~ 15.00		15.00			•	•	•	•	•	•	•	
25				12.00 ~ 17.00		17.00			•	•	•	•	•	•	•	
32		12		16.00 ~ 22.00		22.00			•	•	•	•	•	•	•	
38	8			18.00 ~ 27.00		27.00			•	•	•	•	•	•	•	
40				18.00 ~ 27.00					•	•	•	•	•	•	•	

D	B Std. S	B Alt. A	B Alt. B	KADEME P	FORM MİN. W	FORM MAX. P/G	L 13	L 16	L 20	L 22	L 25	L 28	L 30	L 32	L 35	L 40
45				18.00 ~ 35.00	2.40	35.00			•	•	•	•	•	•	•	
50				18.00 ~ 40.00	4.00	40.00			•	•	•	•	•	•	•	
56				18.00 ~ 45.00		45.00			•	•	•	•	•	•	•	
63				18.00 ~ 50.00		50.00			•	•	•	•	•	•	•	
71				18.00 ~ 56.00		56.00			•	•	•	•	•	•	•	
76				25.00 ~ 60.00	5.60	60.00				•	•	•	•	•	•	
85				25.00 ~ 66.00		66.00				•	•	•	•	•	•	
90				32.70 ~ 70.00		70.00				•	•	•	•	•	•	
100				32.00 ~ 78.00		78.00				•	•	•	•	•	•	

Düz ve Şapkalı Matris

Malzeme : ÇELIK–HSS / HWS
Sertlik : 60–62 HRC

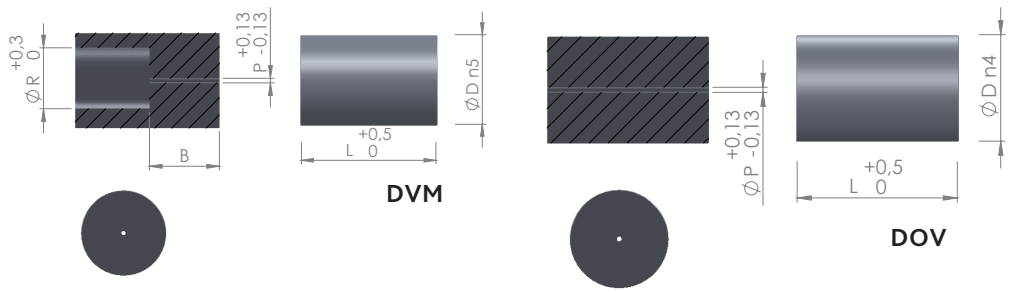


Termin süresi 1 haftadır.

D1	D	D2	D3	L	L1	L2
1.1–1.8	6	D1 + 06	8	20	17	16
1.1–1.8	6	D1 + 06	8	28	25	24
1.9–2.6	7	D1 + 06	9	20	17	16
1.9–2.6	7	D1 + 06	9	28	25	24
2.7–3.3	7	D1 + 06	9	20	17	16
2.7–3.3	7	D1 + 06	9	28	25	24
3.4–4	8	D1 + 06	10	20	17	16
3.4–4	8	D1 + 06	10	28	25	24
4.1–5	10	D1 + 06	12	20	16	16

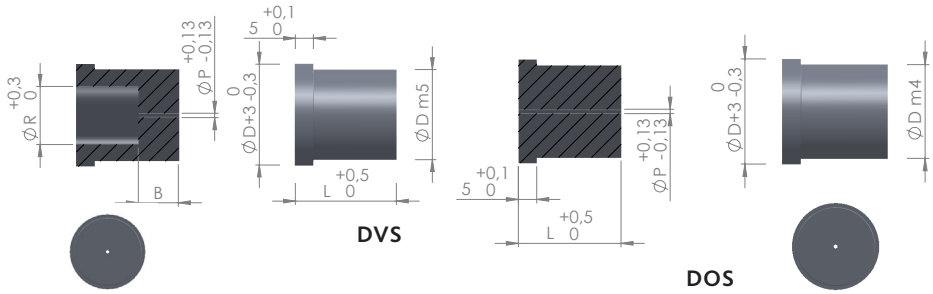
D1	D	D2	D3	L	L1	L2
4.1–5	10	D1 + 1	12	28	24	24
5.1–6	12	D1 + 1	14	20	16	16
5.1–6	12	D1 + 1	14	28	24	24
6.1–8	15	D1 + 1	17	20	16	16
6.1–8	15	D1 + 1	17	28	24	24
8.1–10	18	D1 + 1	20	20	16	16
8.1–10	18	D1 + 1	20	28	24	24
10.1–12	22	D1 + 1	24	20	15	16
10.1–12	22	D1 + 1	24	28	23	24

D1	D	D2	D3	L	L1	L2
12.1–15	26	D1 + 1	28	20	15	16
12.1–15	26	D1 + 1	28	28	23	24
15.5–18	30	D1 + 1	32	28	23	24
18.5–22	35	D1 + 1	37	28	23	24
22.5–26	42	D1 + 1	44	28	23	24
26.5–30	48	D1 + 1	50	28	23	24
30.5–35	55	D1 + 1	57	28	23	24
35.5–42	62	D1 + 1	64	28	23	23
42.5–48	70	D1 + 1	72	28	23	23



Düz Matris

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC



Şapkalı Matris

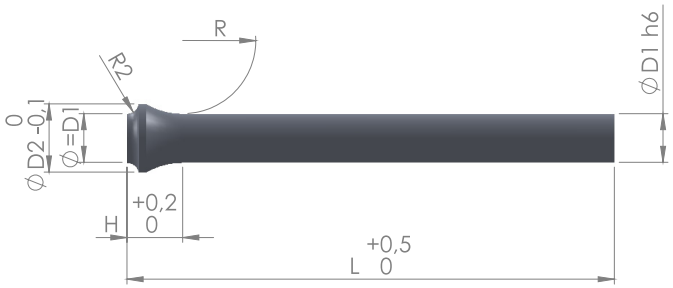
Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

Termin süresi 1 haftadır.

ØD	KADEME P	B			R	L								
		Std S	Alt. A	Alt. B		20	22	25	28	30	32	35	40	45
8.00	0.8	–	–	–	–	•	•	•	•	•	•	•	•	
10.0		4	8		6.00	•	•	•	•	•	•	•	•	
13.0	1.6	5			8.00	•	•	•	•	•	•	•	•	
16.0					9.50	•	•	•	•	•	•	•	•	
20.0			12	20	12.0	•	•	•	•	•	•	•	•	
22.0		6			15.0	•	•	•	•	•	•	•	•	
25.0					17.5	•	•	•	•	•	•	•	•	
32.0					21.0	•	•	•	•	•	•	•	•	
38.0		8			27.0	•	•	•	•	•	•	•	•	
40.0						•	•	•	•	•	•	•	•	
45.0	3.2				36.0		•	•	•	•	•	•	•	•
50.0					41.0		•	•	•	•	•	•	•	•
56.0					46.0		•	•	•	•	•	•	•	•
63.0					51.0		•	•	•	•	•	•	•	•
71.0					57.0		•	•	•	•	•	•	•	•
76.0					61.0		•	•	•	•	•	•	•	•
85.0					67.0		•	•	•	•	•	•	•	•
90.0					71.0		•	•	•	•	•	•	•	•
100					79.0		•	•	•	•	•	•	•	•

Radyus Başlı Zımba

Malzeme : 1.3343 HSS / 1.2379 HWS
HSS Sertlik : 62–64 HRC
HWS Sertlik : 59–61 HRC

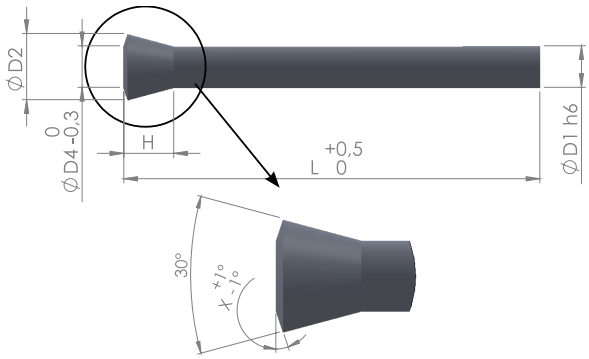


Termin süresi 1 haftadır.

D	D2	H	R	L			
				71	80	100	110
2.00	3.00	4.80	3.50	•			
2.10	3.20	5.28	5.00	•			
2.30	3.50	5.37		•			
2.60	4.00	5.93	6.50	•			
3.00	4.50	6.03		•	•	•	
3.50	5.00	6.38	8.00	•	•	•	
4.00	5.50	7.38		•	•	•	•
4.50	6.00			•	•	•	•
5.00	7.00	8.36	10.0	•	•	•	•
5.50	8.00	8.84		•	•	•	•
6.00	9.00	9.27		•	•	•	•
6.50	10.0	10.24	12.0	•	•	•	•

D	D2	H	R	L			
				71	80	100	110
7.00	10.0	9.81	12.0	•	•	•	•
7.50	11.0	10.24		•	•	•	•
8.00		9.81		•	•	•	•
8.50	13.0	11.9	15.0	•	•	•	•
9.00		11.48		•	•	•	•
9.50	14	11.9	15.0	•	•	•	•
10.0		11.48		•	•	•	•
10.5	15	11.9		•	•	•	•
11.0		11.48		•	•	•	•
11.5	16	11.9		•	•	•	•
12.0	16	11.48		•	•	•	•
12.5	17	11.9		•	•	•	•

D	D2	H	R	L			
				71	80	100	110
13.0	17	11.48	15.0	•	•	•	•
13.5	18	11.9		•	•	•	•
14.0		11.48		•	•	•	•
14.5	19	11.9		•	•	•	•
15.0		11.48		•	•	•	•
15.5	20	11.9		•	•	•	•
16.0		11.48		•	•	•	•
17.0	21	11.48		•	•	•	•
18.0	22	11.48		•	•	•	•
19.0	23	11.48		•	•	•	•
20.0	25	12.99		•	•	•	•

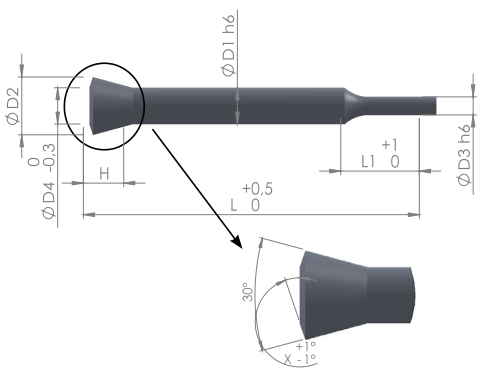


Zımba 30°–Kafa

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

Termin süresi 1 haftadır.

D1	D2	D4	H	K	X	L	
						100	120
5.50	8.98	5.50	7.50	1.00	30.0	•	•
6.00	9.75	6.00	8.00		28.0	•	•
8.00	12.8	8.00	10.0		22.5	•	•
9.00	14.4	9.00	11.0		20.0	•	•
10.0	15.9	10.0	12.0		19.0	•	•
12.0	18.7	12.0	14.0	1.50	24.0		•
14.0	21.8	14.0	16.0		21.0		•
16.0	24.6	16.0	18.0	2.00	25.0		•

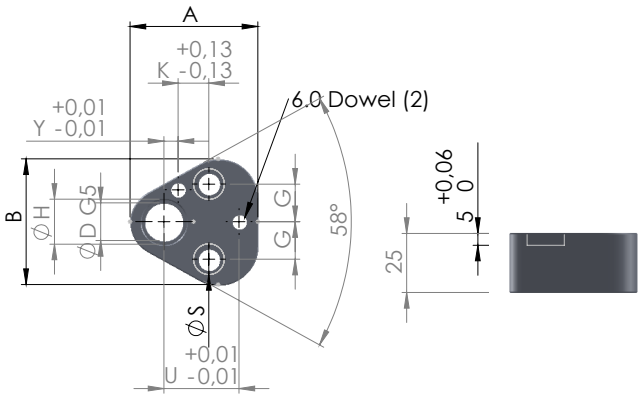


Zımba 30°–Kafa Kademeli

Malzeme : A2 / M2
A2 Sertlik : 58–60 HRC
M2 Sertlik : 60–63 HRC

Termin süresi 1 haftadır.

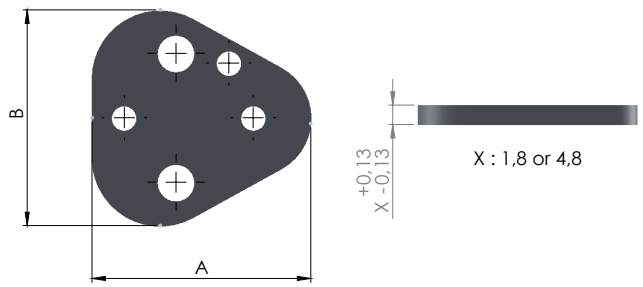
D3	D1	D2	D4	H	K	X	L	
							100	120
2.00 ~ 5.00	5.50	8.98	5.50	7.50	1.00	30.0	•	•
3.00 ~ 5.50	6.00	9.75	6.00	8.00		28.0	•	•
4.00 ~ 7.50	8.00	12.8	8.00	10.0		22.5	•	•
5.00 ~ 8.50	9.00	14.4	9.00	11.0		20.0	•	•
6.00 ~ 9.50	10.0	15.9	10.0	12.0		19.0	•	•
8.00 ~ 11.5	12.0	18.7	12.0	14.0	1.50	24.0		•
10.0 ~ 13.5	14.0	21.8	14.0	16.0		21.0		•
12.0 ~ 15.5	16.0	24.6	16.0	18.0	2.00	25.0		•



Termin süresi 1 haftadır.

Sip. No	D	A	B	H	G	K	R	S	U	X
DZT 10	10.0	44.5	43.7	14.0	11.1	19.0	9.50	12.0	26.925	9.00
DZT 13	13.0	50.8	50.0	17.0	14.3	19.0	12.7	15.2	29.97	12.0
DZT 16	16.0	54.0	53.2	20.0	15.9	19.0	14.3	16.8	32.75	13.5
DZT 20	20.0	60.3	59.5	24.0	17.5	19.0	17.5	20.0	33.53	16.5
DZT 25	25.0	69.9	69.1	29.0	19.8	23.8	22.2	24.7	40.64	22.0
DZT 32	32.0	69.9	69.1	36.0	19.8	23.8	22.2	24.7	40.64	22.0

DZT–Düz Zımba Tutucu

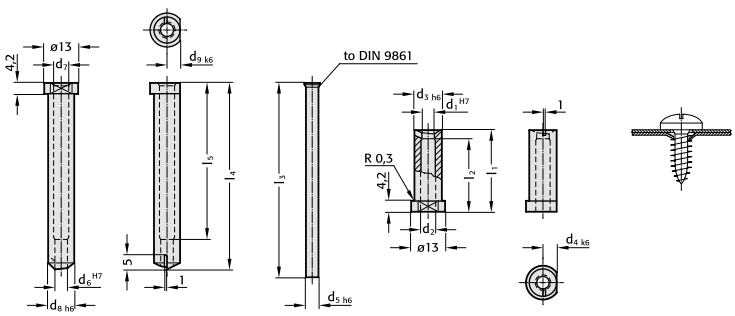


Termin süresi 1 haftadır.

Sip. No	D	1.8	4.8
DID_ 10	10.0	DIDO 1018	DIDP 1048
DID_ 13	13.0	DIDO 1318	DIDP 1348
DID_ 16	16.0	DIDO 1618	DIDP 1648
DID_ 20	20.0	DIDO 2018	DIDP 2048
DID_ 25	25.0	DIDO 2518	DIDP 2548
DID_ 32	32.0	DIDO 3218	DIDP 3248

DID–Zımba Tutucu Kapağı





Vida Yeri Hadde Zımbası

Termin süresi 1 haftadır.

Vida	d1	d2	d3	d4	d5	d6	d7	d8	d9	l1	l2	l3	l4	l5
B3.5	2.75	3.2	7.5	3.75	2.7	2.7	3.1	7.5	3.75	31.3	28	74.5	71.5	60
B3.9	3.05	3.4			3.0	3.0	3.6							
B4.2	3.15	3.5	8.5	4.25	3.1	3.1	3.7	8.0	4.0					
B4.8	3.85	4.2	9.0	4.50	3.8	3.8	4.5							
B5.5	4.35	4.8			4.3	4.3	5.0							
B6.3	4.85	5.3	10.5	5.25	4.8	4.8	5.5	10.0	5.0					



+



Ö22B



Ö23



Ö24



Ö25



Ö75



Ö26

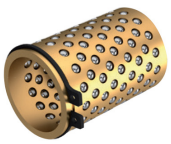


Ö27



Ö28

+



Ö60



+



Ö23





+



Ö23



Ö24



Ö25



Ö26

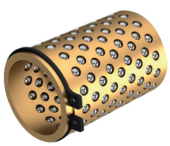


Ö27



Ö28

+



Ö60



Ö24

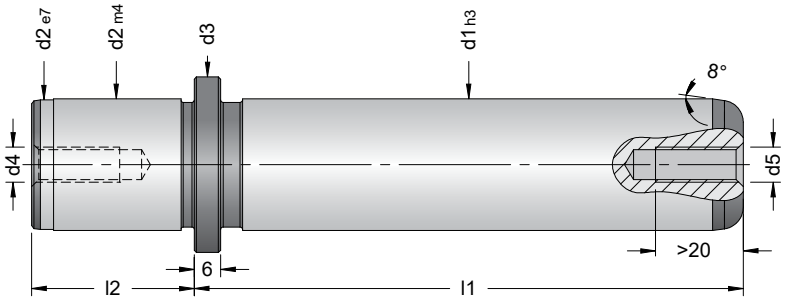


Ö25



Ö26





Ö00–Ortadan Şapkalı Kolon OŞK

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

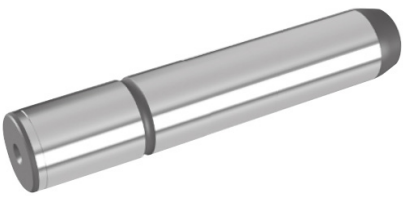
Sipariş Örneği: Ö00_d1 x L1 x L2

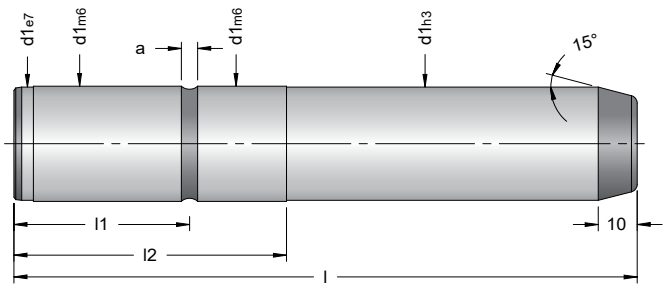
Sip. No	d1	L1	L2	d3	M
006270	15	100	20	22	1x8
006271		112			
006272		125			
006273		140			
006274		160			
006275		180			
006276		200			
006277	16	100	20	22	1x8
006278		112			
006279		125			
006280		140			
006281		160			
006282		180			
006283		200			
006284	19	100	23	25	8
006285		112			
006286		125			
006287		140			
006288		160			
006289		180			
006290		200			
006291	20	100	23	25	8
006292		112			
006293		125			
006294		140			
006295		160			
006296		180			
006297		200			
006298	24	100	30	32	8
006299		112			
006300		125			
006301		140			
006302		160			

Sip. No	d1	L1	L2	d3	M
006303	24	180	30	32	8
006304		200			
006305		224			
006306		250			
006307	25	100	30	32	8
006308		112			
006309		125			
006310		140			
006311		160			
006312		180			
006313		200			
006314		224			
006315		250			
006316	30	112	37	40	8
006317		125			
006318		140			
006319		160			
006320		180			
006321		200			
006322		224			
006323		250			
006324		280			
006325		315			
006326	32	112	37	40	8
006327		125			
006328		140			
006329		160			
006330		180			
006331		200			
006332		224			
006333		250			
006334		280			
006335		315			

Sip. No	d1	L1	L2	d3	M
006336	38	125	37	50	8
006337		140			
006338		160			
006339		180			
006340		200			
006341		224			
006342		250			
006343		280			
006344		315			
006345		355			
006346	40	125	37	50	8
006347		140			
006348		160			
006349		180			
006350		200			
006351		224			
006352		250			
006353		280			
006354		315			
006355		355			
006356	48	140	47	63	8
006357		160			
006358		180			
006359		200			
006360		224			
006361		250			
006362		280			
006363		315			
006364		355			
006365		400			
006366	50	140	47	63	8
006367		160			
006368		180			

Sip. No	d1	L1	L2	d3	M
006369	50	200	47	63	8
006370		224			
006371		250			
006372		280			
006373		315			
006374		355			
006375		400			
006376	60	160	47	80	8
006377		180			
006378		200			
006379		224			
006380		250			
006381		280			
006382		315			
006383		355			
006384		400			
006385	63	160	47	80	8
006386		180			
006387		200			
006388		224			
006389		250			
006390		280			
006391		315			
006392		355			
006393		400			
006394	80	200	60	95	12
006395		224			
006396		250			
006397		280			
006398		315			
006399		355			
006400		400			





Ö10–Kolon

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

Sipariş Örneği: Ö10_d1 x L

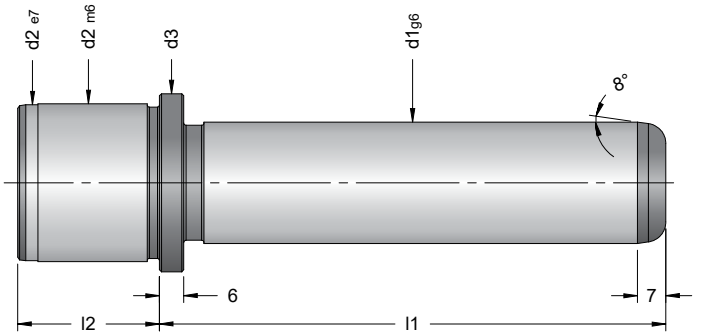
Sip. No	d1	L	L1	L2	a	L3
006401	40	180	37	77	8	10
006402		220				
006403		260				
006404		300				
006405		355				
006406		400				

Sip. No	d1	L	L1	L2	a	L3
006407	50	200	47	95	8	10
006408		240				
006409		280				
006410		315				
006411		355				
006412		400				
006413		450				

Sip. No	d1	L	L1	L2	a	L3
006414	63	240	60	120	8	10
006415		280				
006416		315				
006417		355				
006418		400				
006419		450				

Sip. No	d1	L	L1	L2	a	L3
006420	80	240	60	120	8	16
006421		280				
006422		315				
006423		355				
006424		400				
006425		450				
006426		500				





Ö05–Arkası Kalın Kolon AKK

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

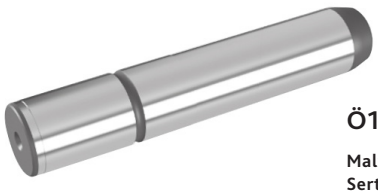
Sipariş Örneği: Ö05_d1 x L1 x L2

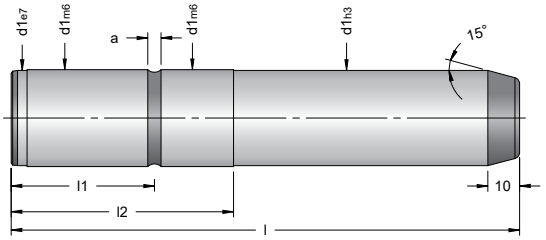
Sip. No	d1	L1	L2	d2	d3
006427	20	100	25	28	34
006428			35		
006429		125	25		
006430			35		
006431		140	25		
006432			35		
006433		160	25		
006434			35		
006435		180	25		
006436			35		
006437	25	100	25	34	39
006438			35		

Sip. No	d1	L1	L2	d2	d3
006439	25	125	25	34	39
006440			35		
006441		140	25		
006442			35		
006443		160	25		
006444			35		
006445		180	25		
006446			35		
006447		200	25		
006448			35		
006449		220	25		
006450			35		

Sip. No	d1	L1	L2	d2	d3
006451	25	240	25	34	39
006452			35		
006453	30	125	35	39	44
006454			45		
006455		140	35		
006456			45		
006457		160	35		
006458			45		
006459		180	35		
006460			45		
006461		200	35		
006462			45		

Sip. No	d1	L1	L2	d2	d3
006463	30	220	35	39	44
006464			45		
006465		240	35		
006466			45		
006467		260	35		
006468			45		
006469		280	35		
006470			45		
006471		315	35		
006472			45		





Ö11–Kolon

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

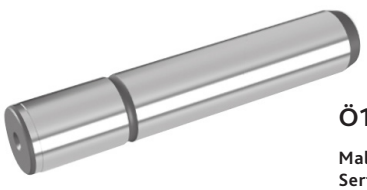
Sipariş Örneği: Ö11_d1 x L

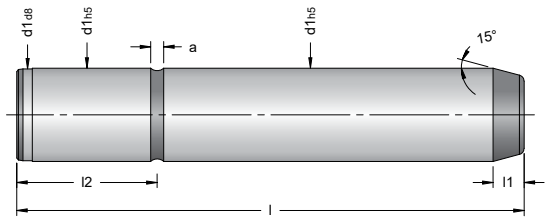
Sip. No	d1	L	L1	L2	a
006473	40	160	25	50	8
006474		180			
006475		200			

Sip. No	d1	L	L1	L2	a
006476	40	225	25	50	8
006477		250			
006478		280			

Sip. No	d1	L	L1	L2	a
006479	50	160	35	70	8
006480		180			
006481		200			

Sip. No	d1	L	L1	L2	a
006482	50	225	35	70	8
006483		250			
006484		315			





Ö12–Kolon

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

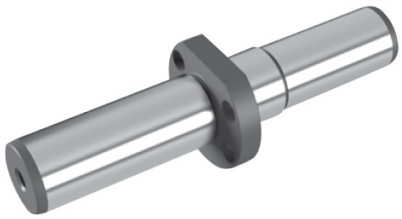
Sipariş Örneği: Ö12_d1 x L

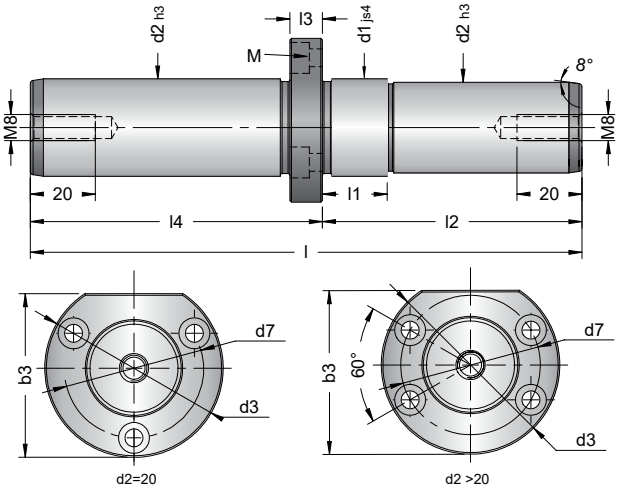
Sip. No	PSA MABEC	RENAULT MABEC	d1	L	L1	L2	a
006485			25	100	8	25	2.5
006486		R100 018 363		125			
006487				140			
006488				160			
006489				180			
006490				200			
006491				220			
006492			32	125	10	32	4.2
006493		P446 116 817		140			
006494		P446 116 815		160			
006495				180			
006496		P446 116 816		200			
006497				220			
006498				250			

Sip. No	PSA MABEC	RENAULT MABEC	d1	L	L1	L2	a
006499	P446 117 470		40	180	12	63	4.2
006500	P446 117 401			200			
006501	P446 117 476			220			
006502				250			
006503				280			
006504				315			
006505			50	200	16	80	4.2
006506	P446 118 170			220			
006507		P446 118 100		224			
006508	P446 118 174			250			
006509	P446 118 101	P446 118 101		280			
006510				315			
006511				355			
006512				400			

Sip. No	PSA MABEC	RENAULT MABEC	d1	L	L1	L2	a
006513	P446 118 701	P446 118 701	63	250	16	100	6.2
006514		P446 118 707		280			
006515	P446 118 702	P446 118 702		315			
006516				355			
006517				400			
006518	P446 119 200	P446 119 200	80	315	16	125	6.2
006519	P446 119 270	P446 119 201		355			
006520		R100 221 692		400			
006521				450			
006522			100	355	16	160	6.2
006523		P446 119 800		400			
006524		P446 119 801		450			
006525				500			

ORTADAN FLANŞLI KOLON





Ö13–Ortadan Flanşlı Kolon

Malzeme : 1.1213 (Cf 53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

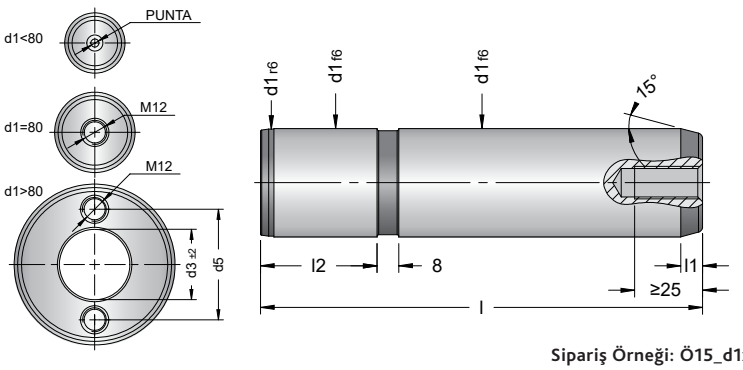
Sipariş Örneği: Ö13_d2 x l4 x l2

Sip. No	b3	d1	d3	d7	l	l1	l3	M	d2	l4	l2
006526	39	22	44	33	150	22	10	M5	20	70	80
006527					160					70	90
006528					180					90	90
006529					200					110	90
006530	45	26	50	38	170	22	10	M5	25	80	90
006531					190					80	110
006532					210					90	120
006533					190					100	90
006534					200					100	100
006535					260					100	160
006536					220					120	100
006537	55	34	60	48	190	27	10	M5	32	90	100
006538					200					90	110

Sip. No	b3	d1	d3	d7	l	l1	l3	M	d2	l4	l2
006539	55	34	60	48	260	27	10	M5	32	100	160
006540					220					110	110
006541					230					110	120
006542					250					130	120
006543					260					130	130
006544	65	42	70	56	210	27	12	M6	40	100	110
006545					220					100	120
006546					240					120	120
006547					250					120	130
006548					270					140	130
006549	75	52	80	66	250	36	15	M6	50	130	120
006550					260					150	110
006551					270					150	120



Ød1 = 80'e Kadar Merkez Deliksiz
Ød1 = 80 Merkezde 1xM12 Diş
Ød1 = 100'den Sonra
Merkez Deliği ve 2xM12 Diş



Ö15–Kolon

Malzeme : Çelik
Sertlik : 60 ± 2 HRC ≈DIN 9825
Isıl İşlem : İndüksiyon ≈ISO 9182-3

Sipariş Örneği: Ö15_d1xL

Sip. No	d1	L	d3	d5	L1	L2
006552	25	125			8	40
006553		140				
006554		160				
006555		180				
006556		200				
006557		224				
006558	32	125			8	45
006559		140				
006560		160				
006561		180				
006562		200				
006563		224				
006564		250				
006565	40	140			8	56
006566		160				
006567		180				
006568		200				
006569		224				
006570		250				
006571		280				

Sip. No	d1	L	d3	d5	L1	L2
006572	50	160			10	70
006573		180				
006574		200				
006575		224				
006576		250				
006577		280				
006578		315				
006579		355				
006580	63	180			10	80
006581		200				
006582		224				
006583		250				
006584		280				
006585		315				
006586		355				
006587		400				
006588	80	224			10	100
006589		250				
006590		280				
006591		315				

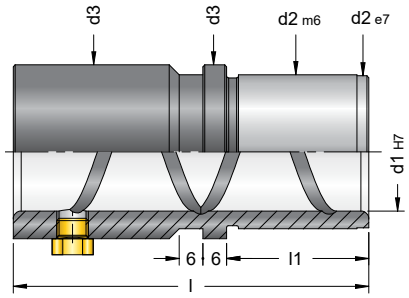
Sip. No	PSA MABEC	d1	L	d3	d5	L1	L2
006592		80	355			10	100
006593			400				
006594			450				
006595			500				
006596		100	250	50	72	10	125
006597			280				
006598			315				
006599	Z000499647		355				
006600			400				
006601			450				
006602			500				
006603		125	315	65	90	12	140
006604			355				
006605	Z000499648		400				
006606			450				
006607			500				
006608		160	400	95	132	12	180
006609			450				
006610			500				
006611			560				



OŞB

Ö23–Ortadan Şapkalı Burç

Malzeme : 1.7131 (16MnCr5)
Sertlik : 62 ± 2 HRC
Isıl İşlem : Sementasyon



Sipariş Örneği: Ö23_d1 x L x L1

Sip. No	d1	L	L1	d2	d3
006612	16	59	23	30	32
006613	20	70	26	28	34
006614			36		
006615	25	80	26	34	39

Sip. No	d1	L	L1	d2	d3
006616	25	80	36	34	39
006617	30	90	36	39	44
006618			46		
006619	40	100	36	50	54

Sip. No	d1	L	L1	d2	d3
006620	40	108	36	58	65
006621		100	46	50	54
006622	50	120	46	60	64
006623			56		

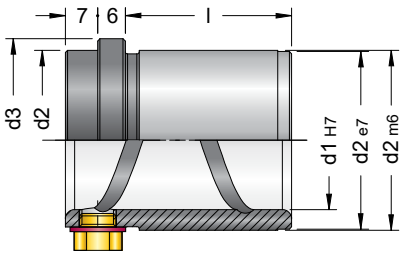
Sip. No	d1	L	L1	d2	d3
006624	50	127	56	70	75
006625	63	130	56	80	87
006626		150		85	95
006627	80	150	60	105	115



UŞB

Ö24–Üstten Şapkalı Burç

Malzeme : 1.7131 (16MnCr5)
Sertlik : 62 ± 2 HRC
Isıl İşlem : Sementasyon



Sipariş Örneği: Ö24_d1 x d2 x L

Sip. No	d1	d2	L	d3
006628	16	30	23	34
006629	20	28	26	34
006630	25	34	26	39
006631	30	39	26	44

Sip. No	d1	d2	L	d3
006632	30	39	36	44
006633	40	50	36	54
006634			46	
006635		58		65

Sip. No	d1	d2	L	d3
006636	50	60	46	64
006637		70		75
006638	63	85	46	95
006639			56	

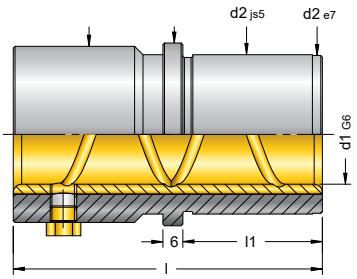
Sip. No	d1	d2	L	d3
006640	80	105	60	115



UBB

Ö25–Uzun Bronz Burç

Malzeme : Çelik + Bronz



Sipariş Örneği: Ö25_d1 x L x L1

Sip. No	d1	L	L1	d2	d3	d4
006641	16	59	23	30	34	32
006642	19	43	23	32	40	39
006643		59				
006644			33			
006645	20	43	23	32	40	39
006646		59				
006647			33			
006648	24	59	23	40	48	46
006649		79				
006650			33			

Sip. No	d1	L	L1	d2	d3	d4
006651	25	59	23	40	48	46
006652		79				
006653			33			
006654	30	75	30	48	56	53
006655		93				
006656			40			
006657	32	75	30	48	56	53
006658		93				
006659			40			

Sip. No	d1	L	L1	d2	d3	d4
006660	38	82	37	58	66	63
006661		108				
006662			47			
006663	40	82	37	58	66	63
006664		108				
006665			47			
006666	48	97	47	70	80	77
006667		127				
006668			57			

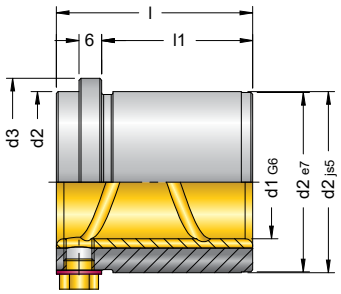
Sip. No	d1	L	L1	d2	d3	d4
006669	50	97	47	70	80	77
006670		127				
006671			57			
006672	60	116	60	85	95	92
006673		150				
006674	63	116	60	85	95	92
006675		150				
006676	80	120	60	105	118	115
006677		150				



Ö26–Kısa Bronz Burç

Malzeme : Çelik + Bronz

ISO-9448



Sipariş Örneği: Ö26_d1 x L x L1

Sip. No	d1	L	L1	d2	d4
006678	16	35	23	30	34
006679	19	35	23	32	40
006680		45	33		
006681	20	35	23	32	40
006682		45	33		
006683	24	35	23	40	48
006684		45	33		

Sip. No	d1	L	L1	d2	d4
006685	25	35	23	40	48
006686		45	33		
006687	30	42	30	48	56
006688		52	40		
006689	32	42	30	48	56
006690		52	40		

Sip. No	d1	L	L1	d2	d4
006691	38	52	37	58	66
006692		62	47		
006693	40	52	37	58	66
006694		62	47		
006695	48	65	47	70	80
006696		75	57		

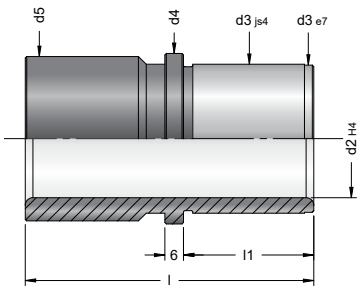
Sip. No	d1	L	L1	d2	d4
006697	50	65	47	70	80
006698		75	57		
006699	60	80	60	85	95
006700	63	80	60	85	95
006701	80	80	60	105	118



Ö27–Şapkalı Bilyalı Burç

ŞBB

Malzeme : 1.3505 (100Cr6)
Sertlik : 62 ± 2 HRC **DIN 9831**
Isıl İşlem : Sertleştirme **ISO-9448-7**



Sipariş Örneği: Ö27_d1 x L x L1

Sip. No	d1	L	L1	d2	d3	d4	d5
006702	15	43	23	21	30	34	32
006703		59					
006704			33				
006705	16	43	23	22	30	34	32
006706		59					
006707			33				
006708	19	43	23	25	32	40	39
006709		59					
006710			33				
006711	20	43	23	26	32	40	39
006712	20	59	23				

Sip. No	d1	L	L1	d2	d3	d4	d5
006713	20	59	33	26	32	40	39
006714	24	59	23	30	40	48	46
006715		79					
006716			33				
006717	25	59	23	31	40	48	46
006718		79					
006719			33				
006720	30	75	30	38	48	55	53
006721		93					
006722			40				
006723	32	75	30	40	48	55	53

Sip. No	d1	L	L1	d2	d3	d4	d5
006724	32	93	30	40	48	55	53
006725			40				
006726	38	82	37	46	58	66	63
006727		108					
006728			47				
006729	40	82	37	48	58	66	63
006730		108					
006731			47				
006732	48	97	47	56	70	80	77
006733		127					
006734			57				

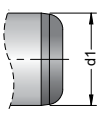
Sip. No	d1	L	L1	d2	d3	d4	d5
006735	50	97	47	58	70	80	77
006736		127					
006737			57				
006738	60	116	60	68	85	95	92
006739		150					
006740	63	116	60	71	85	95	92
006741		150					
006742	80	120	60	92	105	115	112
006743		150					

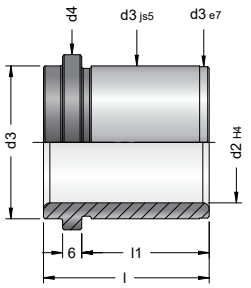


Ö28–Kısa Bilyalı Burç

KBB

Malzeme : 1.3505 (100Cr6)
Sertlik : 62 ± 2 HRC **DIN 9831**
Isıl İşlem : Sertleştirme **ISO-9448-7**





Sipariş Örneği: Ö28_d1 x L x L1

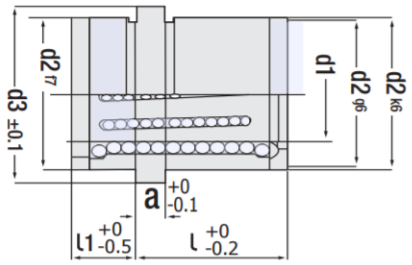
Sip. No	d1	L	L1	d2	d3	d4
006744	15	35	23	21	30	34
006745		45	33			
006746	16	35	23	22	30	34
006747		45	33			
006748	19	35	23	25	32	40
006749		45	33			
006750	20	35	23	26	32	40

Sip. No	d1	L	L1	d2	d3	d4
006751	20	45	33	26	32	40
006752	24	35	23	30	40	48
006753		45	33			
006754	25	35	23	31	40	48
006755		45	33			
006756	30	42	30	38	48	56
006757		52	40			

Sip. No	d1	L	L1	d2	d3	d4
006758	32	42	30	40	48	56
006759		52	40			
006760	38	52	37	46	58	66
006761		62	47			
006762	40	52	37	48	58	66
006763		62	47			
006764	48	65	47	56	70	80

Sip. No	d1	L	L1	d2	d3	d4
006765	48	75	57	56	70	80
006766	50	65	47	58	70	80
006767		75	57			
006768	60	80	60	68	85	95
006769	63	80	60	71	85	95
006770	80	80	60	92	105	115





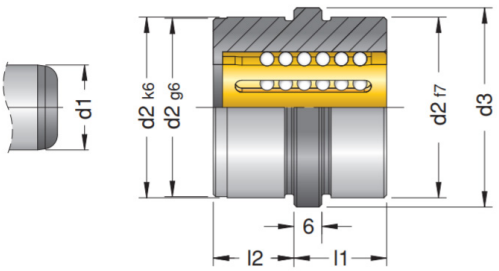
Ö22.01 -Flanşlı Rulman Burç

Malzeme : 1.3505 (100Cr6)
Sertlik : 61–63 HRC
Isıl İşlem : Sementasyon

Sip. No	d1 Ø	l mm	d2 Ø	d3 Ø	a mm	l1 mm	Bilya Ø
006771	12	22	24	28	6	8	3
006772	18	26	30	34	6	9	3
006773	20	26	32	36	6	9	3
006774		36					
006775	25	26	40	45	6	10	3
006776		36					
006777		46					

Sip. No	d1 Ø	l mm	d2 Ø	d3 Ø	a mm	l1 mm	Bilya Ø
006778	30	46	48	54	8	12	4
006779		66					
006780	40	46	60	66	8	12	4
006781		66					

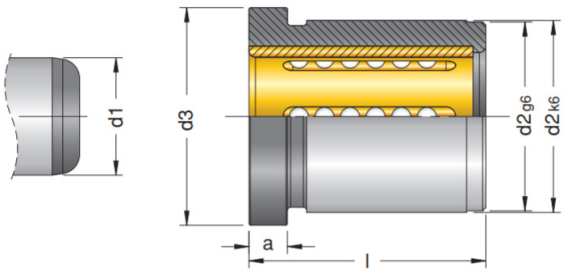




Ö22.02–Lineer Bilyalı Burç

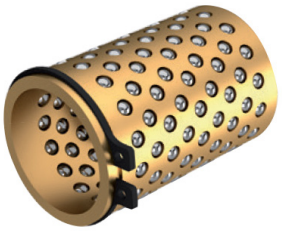
Sip. No	l2	d2	d3	d1	l1
006782	12	22	25	12	17
006783	17	30	33	18	22
006784	22	38	41	24	27
006785	27	46	49	30	36





Ö22.03–Lineer Bilyalı Burç

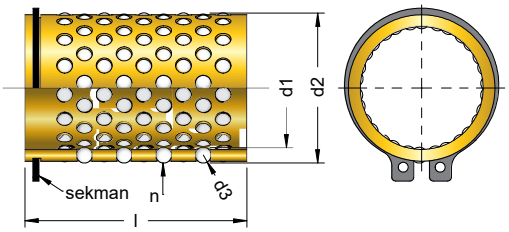
Sip. No	Bilya Çapı	a	d3	d2	d1	l
006786	3	6	34	30	18	35
006787			36	32	20	35
006788					20	45
006789					20	55
006790	4	8	54	48	30	45
006791					30	63
006792			66	60	40	45
006793					40	63



Ö60–Bilyalı Kafes

Malzeme : Ms58
Bilya Malzemesi : 100Cr6 (1.3505)

DIN 471
DIN 5401



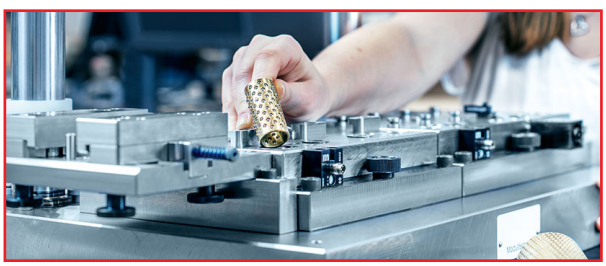
Sipariş Örneği: Ö60_d1 x L

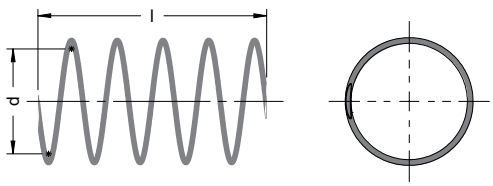
Sip. No	d1	L	d2	d3	n
006794	12	40	16	2	176
006795		56			272
006796	15	45	21	3	140
006797		56			196
006798		71			238
006799	16	45	22	3	140
006800		56			196
006801		71			238
006802	18	45	24	3	176
006803		56			240
006804		71			272
006805	19	45	25	3	180
006806		56			234
006807		71			306
006808		80			342
006809		95			414
006810	20	45	26	3	180
006811		56			234
006812		71			306
006813		80			342
006814		95			414
006815	24	45	30	3	180
006816		56			240
006817		71			280
006818		80			320
006819		95			440
006820		105			480
006821		120			560
006822	25	45	31	3	180
006823		56			240
006824		71			280
006825		80			320
006826		95			440
006827		105			480
006828		120			560

Sip. No	d1	L	d2	d3	n
006829	30	45	38	4	140
006830		56			180
006831		75			240
006832		80			280
006833		95			340
006834		105			380
006835		120			420
006836		140			500
006837	32	45	40	4	140
006838		56			180
006839		75			240
006840		80			280
006841		95			340
006842		105			380
006843		120			420
006844		140			500
006845	38	56	46	4	216
006846		71			288
006847		80			336
006848		95			408
006849		105			456
006850		120			528
006851		140			624
006852		160			720
006853	40	56	48	4	216
006854		71			288
006855		80			336
006856		95			408
006857		105			456
006858	40	120	48	4	528
006859		140			624
006860		160			720
006861	48	71	56	4	360
006862		80			390
006863		95			480

Sip. No	d1	L	d2	d3	n
006864	48	105	56	4	540
006865		120			600
006866		140			720
006867		160			840
006868	50	71	58	4	360
006869		80			390
006870		95			480
006871		105			540
006872		120			600
006873		140			720
006874		160			840
006875	60	85	68	4	504
006876		95			558
006877		105			612

Sip. No	d1	L	d2	d3	n
006878	60	120	68	4	720
006879		140			828
006880		160			972
006881	63	85	71	4	504
006882		95			558
006883		105			612
006884		120			720
006885		140			828
006886		160			972
006887	80	120	92	6	286
006888		140			330
006889		160			374
006890		180			462
006891		200			506





Ö60.01–Bilyalı Kafes Tutucu

Malzeme : Çelik + Bronz

Sipariş Örneği: Ö60.01_d1 x L

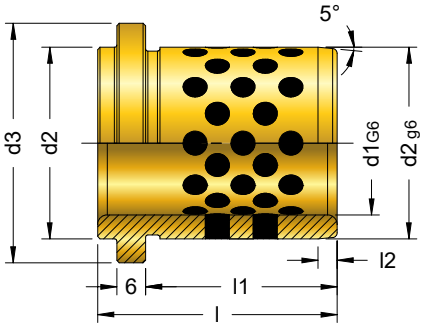
Sip. No	d	L	Not
006892	19	040–140	L 10 mm Aralıklarla
006893	20	040–140	
006894	24	040–180	
006895	25	040–180	
006896	30	050–230	
006897	32	050–230	

Sip. No	d	L	Not
006898	38	060–230	L 10 mm Aralıklarla
006899	40	060–230	
006900	48	070–280	
006901	50	070–280	
006902	60	080–250	
006903	63	080–250	



Ö30.01–Grafitli Burç

Malzeme : SAE 430B
Sertlik : HB ≥180



Sipariş Örneği: Ö30.01_d1 x L

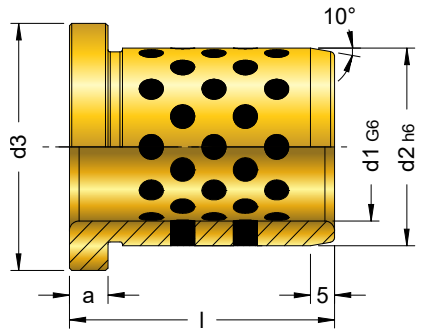
Sip. No	FORD WDX1360	NAAMS G61	OPEL U2802-99(A)	d1	L	d2	d3	L1	L2
006904				20	40	28	34	30	4
006905	08025	2540	F33020019	25	40	32	40	30	4
006906				30	50	40	50	40	4
006907	08032	3250	F33020020	32	50	40	50	40	4
006908	08040	4063	F330200021	40	63	50	63	50	5

Sip. No	FORD WDX1360	NAAMS G61	OPEL U2802-99(A)	d1	L	d2	d3	L1	L2
006909	08050	5071	F33020022	50	71	63	71	56	6
006910	08063	6300	F33020023	63	80	80	90	63	8
006911	08080	8010	F33020024	80	100	100	112	80	10
006912	08100	1012	F33020025	100	125	125	140	106	12
006913	08125	1216	F33020026	125	160	160	180	132	12



Ö30.02–Grafitli Burç

Malzeme : SAE 430B
Sertlik : HB ≥180



Sipariş Örneği: Ö30.02_d1 x L

Sip. No	FORD WDX1360	FORD WSA 003	d1	L	d2	d3	a
006914	05020	11020	20	35	28	36	8
006915			25	40	32	40	8
006916			30	55	40	50	8
006917	05032		32	55	40	50	8

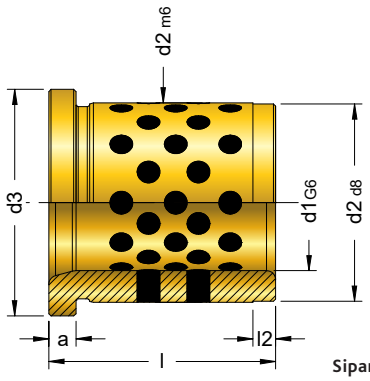
Sip. No	FORD WDX1360	FORD WSA 003	d1	L	d2	d3	a
006918	05040		40	70	50	60	8
006919	05042	11042	42	70	50	60	8
006920	05050		50	75	63	75	12
006921	05052	11052	52	75	63	75	12

Sip. No	FORD WDX1360	d1	L	d2	d3	a
006922	05063	63	80	80	90	12
006923	05080	80	100	100	110	12
006924	05100	100	125	125	135	12



Ö30.03–Grafitli Burç

Malzeme : SAE 430B
Sertlik : HB ≥180



Sipariş Örneği: Ö30.03_d1 x L

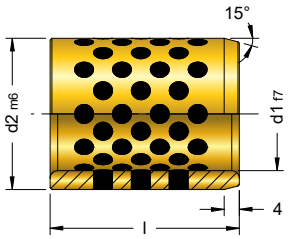
Sip. No	PSA MABEC CODE	RENAULT MABEC CODE	d1	L	d2	d3	a	L2
006925			25	40	35	40	5	5
006926			32	50	44	50	6	5
006927	X345 274 670	M764 539 401	40	63	52	60	8	8
006928	X345 281 970	M764 544 501	50	80	63	71	10	8

Sip. No	PSA MABEC CODE	RENAULT MABEC CODE	d1	L	d2	d3	a	L2
006929	X345 287 270	M764 549 501	63	100	80	90	12	10
006930	X345 292 370	M764 554 601	80	125	100	112	16	10
006931		X345 298 500	100	160	125	140	20	10



Ö30.04–Grafitli Burç

Malzeme : SAE 430B
Sertlik : HB ≥180



Sipariş Örneği: Ö30.04_d1 x L x d2

Sip. No	d1	L	d2	L1
006932	10	10	14	2
006933		15		
006934		20		
006935	12	10	18	
006936		15		
006937		20		
006938		25		
006939		30		
006940	16	16	22	
006941		20		
006942		25		
006943		30		
006944		35		
006945		40		
006946	20	15	28	4
006947		16	28	
006948		16	30	
006949		20	28	
006950		20	30	
006951		25	28	
006952		25	30	
006953		30	28	
006954		30	30	
006955		35	28	
006956		35	30	
006957		37	28	
006958		40	26	
006959		40	28	
006960		40	30	
006961		50	28	
006962	25	16	33	
006963		16	35	

Sip. No	d1	L	d2	L1
006964	25	20	33	4
006965		20	35	
006966		25	33	
006967		25	35	
006968		30	33	
006969		30	35	
006970		35	33	
006971		35	35	
006972		40	33	
006973		40	35	
006974		47	33	
006975		50	32	
006976		50	33	
006977		50	35	
006978		60	33	
006979	30	20	38	
006980		20	40	
006981		25	38	
006982		25	40	
006983		30	38	
006984		30	40	
006985		35	38	
006986		35	40	
006987		40	38	
006988		40	40	
006989		50	38	
006990		50	40	
006991		60	38	
006992		60	40	
006993		60	42	
006994	35	20	45	
006995		25	44	

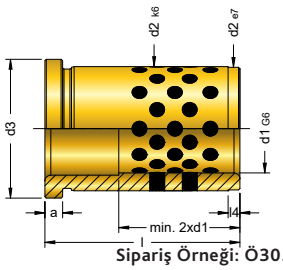
Sip. No	d1	L	d2	L1
006996	35	25	45	4
006997		30	44	
006998		30	45	
006999		35	44	
007000		35	45	
007001		40	44	
007002		40	45	
007003		50	44	
007004		50	45	
007005		60	44	
007006		60	45	
007007	40	20	50	
007008		25	50	
007009		25	55	
007010		30	50	
007011		30	55	
007012		35	50	
007013		35	55	
007014		40	50	
007015		40	55	
007016		50	50	
007017		50	55	
007018		60	50	
007019		60	55	
007020		70	50	
007021		77	50	
007022		80	50	
007023	50	30	60	
007024		30	62	
007025		30	65	
007026		35	60	
007027		35	62	

Sip. No	d1	L	d2	L1
007028	50	40	60	4
007029		40	62	
007030		40	65	
007031		50	60	
007032		50	62	
007033		50	65	
007034		60	60	
007035		60	62	
007036		60	65	
007037		70	60	
007038		70	62	
007039		70	65	
007040		80	60	
007041		80	65	
007042		95	60	
007043		100	65	
007044	63	30	74	
007045		30	75	
007046		35	74	
007047		35	75	
007048		40	74	
007049		40	75	
007050		50	74	
007051		50	75	
007052		60	74	
007053		60	75	
007054		70	74	
007055		70	75	
007056		80	74	
007057		80	75	
007058		100	75	



Ö30.05–Grafitli Burç

Malzeme : SAE 430B
Sertlik : HB ≥180



Sipariş Örneği: Ö30.05_d1 x L

Sip. No	d1	L	d2	d3	a	L4
007059	12	16	18	22	4	??
007060		21				
007061		27				
007062		36				
007063	16	27	22	27	6	??
007064		36				
007065		46				
007066		56				
007067	20	17	26	31	6	2
007068		22				
007069		27				
007070		36				
007071		46				
007072		56				

Sip. No	d1	L	d2	d3	a	L4
007073	20	66	26	31	6	2
007074		76				
007075	25	46	32	38	6	3
007076		56				
007077		66				
007078		76				
007079		86				
007080	30	27	42	47	6	4
007081		36				
007082		46				
007083		56				
007084		66				
007085		76				
007086		86				

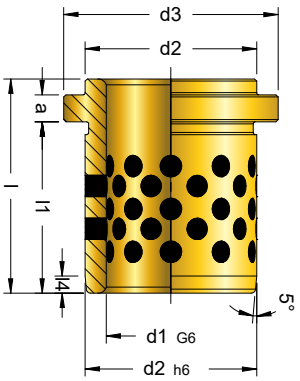
Sip. No	d1	L	d2	d3	a	L4
007087	30	96	42	47	6	4
007088		116				
007089	40	46	54	60	10	5
007090		56				
007091		66				
007092		76				
007093		86				
007094		96				
007095		116				
007096		136				
007097		156				
007098	50	76	66	72	10	5
007099		86				
007100		96				

Sip. No	d1	L	d2	d3	a	L4
007101	50	116	66	72	10	5
007102		136				
007103		156				
007104		196				
007105	60	96	80	86	20	5
007106		116				
007107		136				
007108		156				
007109		196				
007110	63	96	80	86	20	5
007111		116				
007112		136				
007113		156				
007114		196				



Ö30.06–Grafitli Burç

Malzeme : SAE 430B
Sertlik : HB ≥180



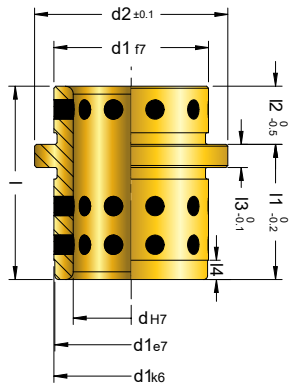
Sipariş Örneği: Ö30.06_d1 x L

Sip. No	BMW CODE BMW 2933 1	PSA MABEC	d1	L	d2	d3	D6	L1	a	L4
007115	2168699		25	40	32	40	58	30	6.3	3
007116	2168700		32	50	40	50	66	40	6.3	4
007117	2168701		40	63	50	63	79	50	6.3	5
007118	2168702		50	71	63	71	89	56	6.3	6.3
007119	2168703		63	80	80	90	123	63	10	8
007120	2168704		80	100	100	112	143	80	10	10
007121	2168705	Z000499644	100	125	125	140	168	106	10	12.5
007122	2168706	Z000499646	125	160	160	180	203	132	10	16
007123	2168707		160	200	200	220	243	170	10	16



Ö30.07–Grafitli Burç

Malzeme : SAE 430B
Sertlik : HB ≥180



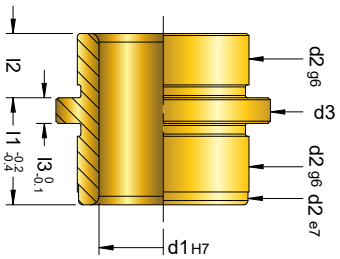
Sipariş Örneği: Ö30.07_d1 x l1

Sip. No	d1	d2	l	l2	l3	l4	d	l1
007124	20	25	26	9	6	2	14	17
007125	20	25	26	9	6	2	16	17
007126	26	31	39	17	6	2	16	17
007127	30	35	49	22	6	4	22	27
007128	30	35	49	22	6	2	25	27
007129	42	47	63	27	6	2	30	36
007130	50	60	63	27	8	8	40	36
007131	63	72	92	37	8	8	50	55



Ö30.07.01–Bronz Burç

Malzeme : SAE 430B
Sertlik : HB ≥180



Sipariş Örneği: Ö30.07.01_d1 x l2 x l1

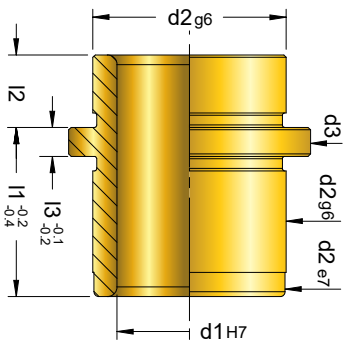
Sip. No	l3	d2	d3	d1	l2	l1
007132	3	14	16	10	5	10
007133	6		17	10	9	12
007134				10	9	17
007135	3		16	10	10	10
007136	6	16	19	12	9	17
007137				12	12	17
007138		18	21	14	12	17
007139				14	12	22
007140				14	17	22
007141	6	24	27	18	12	17
007142				18	12	22
007143				18	17	22
007144				18	17	27
007145				18	22	27

Sip. No	l3	d2	d3	d1	l2	l1
007146	6	26	29	20	17	22
007147				20	22	27
007148		28	31	22	17	22
007149				22	22	27
007150	6	30	33	24	17	22
007151				24	17	27
007152				24	22	27
007153				24	27	36
007154		38	41	30	22	27
007155				30	27	36
007156				30	27	46
007157				30	36	46
007158		45	51	40	36	46



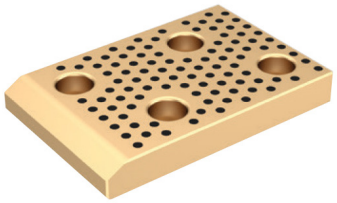
Ö30.07.02–Bronz Burç

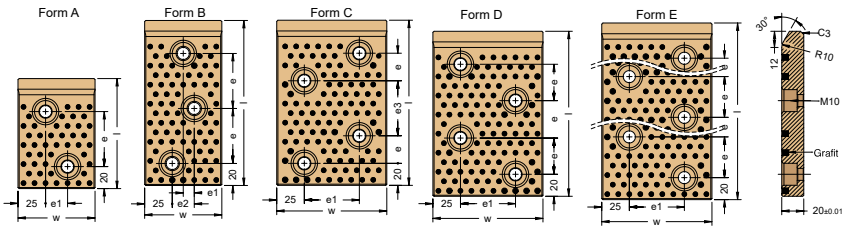
Malzeme : SAE 430B
Sertlik : HB ≥180



Sipariş Örneği: Ö30.07.02_d1 x l2 x l1

Sip. No	l3	d2	d3	d1	l2	l1
007159	5	32	36	24	9	17
007160					12	17
007161					6	20
007162	5	44	48	36	12	17
007163					12	22
007164					17	22
007165					6	24
007166	6	58	62	48	17	22
007167					17	27
007168					10	30





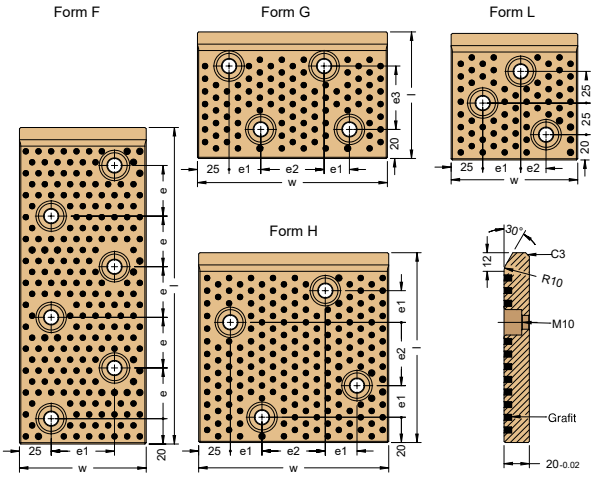
Ö80.03–Grafitli Sürtünme Plakası

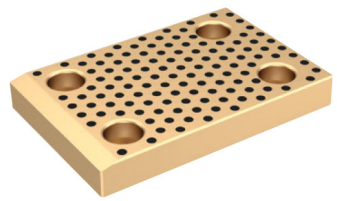
Malzeme : SAE 430B / Grafit
Sertlik : HB ≥180

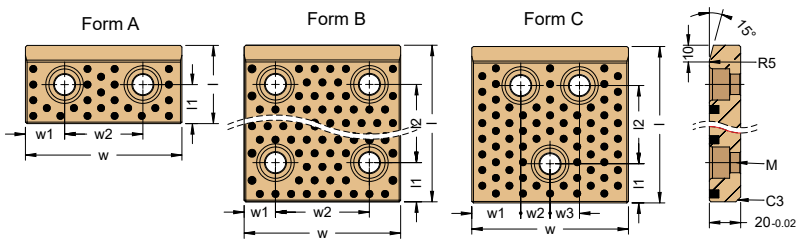
Sipariş Örneği: Ö80.03_W x L

Sip. No	PSA MABEC CODE	RENAULT MABEC CODE	W	L	e	e1	e2	e3	Form
007169	Z000 166 214	R100 092 843	70	100	50	20			A
007170	Z000 166 216	R100 092 844		150		10	20		B
007171	Z000 166 221	R100 092 845		200		20			D
007172	Z000 166 217	R100 092 883	100	150	25	50		50	C
007173	Z000 166 222	R100 092 884		200	50	50			D
007174	Z000 166 225	R100 092 885		250		50			E
007175	Z000 166 223	R100 092 890	150	200	50	100			D
007176	Z000 166 226	R100 092 893		250		100			E

Sip. No	PSA MABEC CODE	RENAULT MABEC CODE	W	L	e	e1	e2	e3	e4	Form
007177	Z000 166 215	R100 092 846	100	100		30	20		25	I
007178	Z000 166 227	R100 092 886		300	50	50				F
007179	Z000 166 218	R100 092 887	150	100		25	50	50		G
007180	Z000 166 219	R100 092 888		150		25	50			H
007181	Z000 166 228	R100 092 894		300	50	100				F
007182	Z000 166 224	R100 092 895	200	100		50	50	50		G





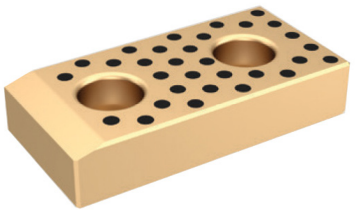


Ö80.02–Grafitli Sürtünme Plakası

Malzeme : SAE 430B / Grafit
Sertlik : HB ≥180

Sipariş Örneği: Ö80.02_W x L

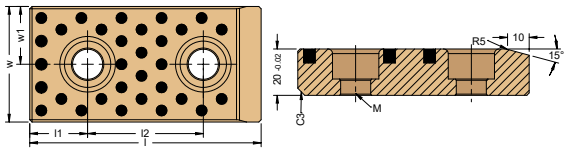
Sip. No	VW/AUDI 39D863	FORD WDX 1365	OPEL 3425	W	L	w1	w2	w3	L1	L2	d1	d	t	Form
007183	21			80	50	25	30		25		15	9	9	A
007184	31	01100050-Y	F33 04 0008	100	50	25	50		25		20	13.5	13	A
007185	32		F33 04 0009	100	80				40					
007186	41			125	50	25	75		25		20	13.5	13	A
007187	42		F33 04 0014	125	80				40					
007188	43	01125100-Y	F33 04 0015	125	100	25	37.5	37.5	25	50				C
007189	44		F33 04 0016	125	125					75				
007190	45	01125160-Y	F33 04 0017	125	160					110				
007191	46	01125200-Y		125	200					150				
007192		01125250-Y		125	250				40	170				
007193		01125315-Y		125	315					235				
007194	51			160	50	25	110		25		20	13.5	13	A
007195	52			160	80				40					
007196	53	01160100-Y	F33 04 0018	160	100	25	55	55	25	50				C
007197	54		F33 04 0019	160	125					75				
007198	55	01160160-Y	F33 04 0020	160	160					110				
007199	56	01160200-Y		160	200					150				
007200		01160250-Y		160	250		110		40	170				B
007201		01160315-Y		160	315					235				
007202		01160250-Y		160	250		55	55		170				C
007203		01160315-Y		160	315					235				



Ö80.01–Grafitli Sürtünme Plakası

Malzeme : SAE 430B / Grafit
Sertlik : HB ≥180

VDI 3357

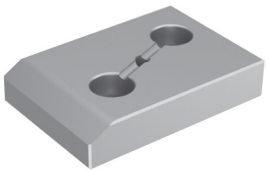


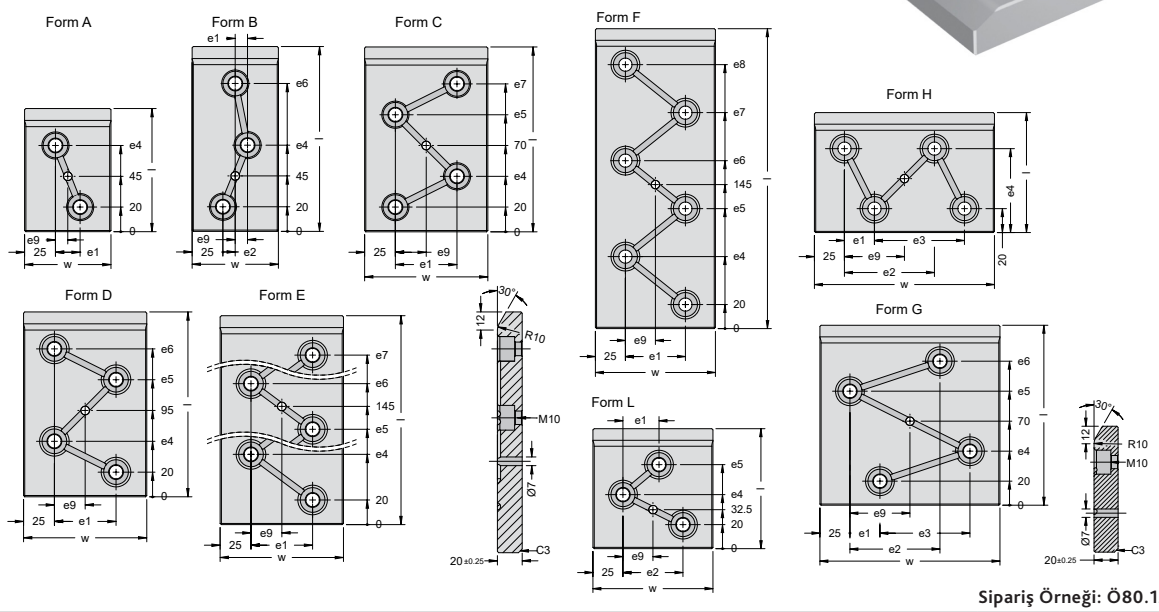
Sipariş Örneği: Ö80.01_W x L

Sip. No	VW/AUDI 39D863	FORD WDX 1365	OPEL 3425	W	L	w1	L1	L2	d1	d	t
007204	12			50	80	25	25	30	15	9	9
007205	13	01050100-Y	F33 04 0000		100			50	20	13.5	13
007206	14		F33 04 0001		125			75			
007207	15	01050160-Y	F33 04 0002		160			110			
007208	16	01050200-Y	F33 04 0003		200			150			
007209	22			80	80	40	25	30	20	13.5	13
007210	23	01080100-Y	F33 04 0004		100			50			
007211	24		F33 04 0005		125			75			
007212	25	01080160-Y	F33 04 0006		160			110			
007213	26	01080200-Y	F33 04 0007		200			150			
007214		01080250-Y			250		40	170			
007215		01080315-Y			315			235			
007216	33	01100100-Y	F33 04 0010	100	100	50	25	50	20	13.5	13
007217	34	01100125-Y	F33 04 0011		125			75			
007218	35	01100160-Y	F33 04 0012		160			110			
007219	36	01100200-Y	F33 04 0013		200			150			
007220		01100250-Y			250		40	170			
007221		01100315-Y			315			235			

Ö80.15–Çelik Sürtünme Plakası

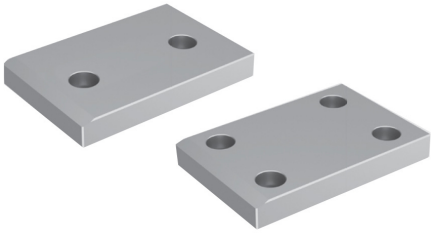
Malzeme : Çelik
Sertlik : 62±2 HRC

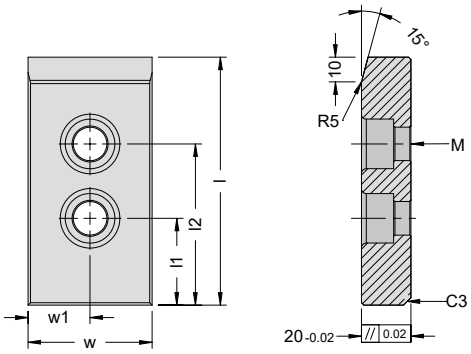




Sipariş Örneği: Ö80.15_W x L

Sip. No	PSA MABEC CODE	RENAULT MABEC CODE	W	L	e1	e2	e3	e4	e5	e6	e7	e8	e9	Form
007222	Z000166213	P446625854	70	100	20			70					10	A
007223	P446626558	P446626558		150	10	10			120				10	B
007224	P446627059	P446627059		200	20					170			10	D
007225	P446626559	P446626559	100	150	50			45	95	120			25	C
007226	P446627060	P446627060		200				70	120	170			25	D
007227	P446627454	P446627454		250							220		25	E
007228	P446627061	P446627061	150	200	100			70	120	170			50	D
007229	P446627455	P446627455		250	100						220		50	E
007230	P446625855	P446625855	100	100	30	50		45	70				25	I
007231	P446627754	P446627754		300	50			70	120	170	220	270	25	F
007232	P446626560	P446626560	150	100	25	75	100	70					50	G
007233	P446626561	P446626561		150				45	95	120			50	H
007234	P446627755	P446627755		300	100			70	120	170	220	270	50	F
007235	Z000166220	P446627062	200	100	50	100	150	70					75	G





Ö80.16–Çelik Sürtünme Plakası

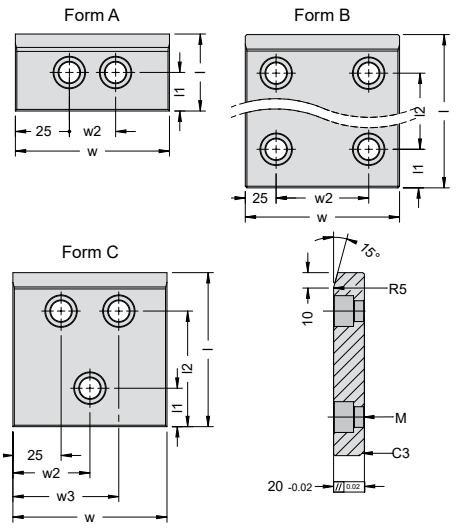
Malzeme : Çelik
Sertlik : 60–64 HRC

Sipariş Örneği: Ö80.16_W x L

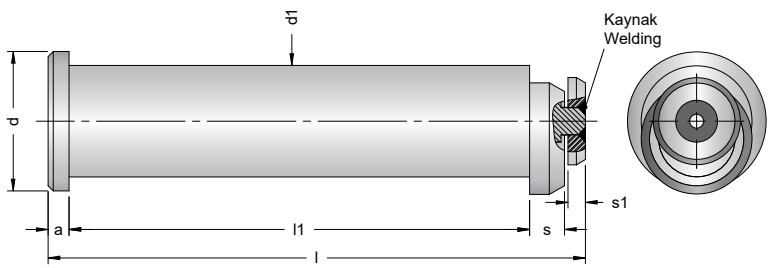
Sip. No	VW/AUDI 39D863	FORD WDX 13-65	W	L	w1	L1	L2	d1	d	t	Civata
007236	62	01050100-X	50	80	25	25	30	15	9	9	M8 x 25
007237	63	01050125-X		100			50	20	13.5	13	M12 x 25
007238	64	01050160-X		125			75				
007239	65	01050200-X		160			110				
007240	66			200			150				
007241	72	01080100-X	80	80	40	25	30	20	13.5	13	
007242	73	01080125-X		100			50				
007243	74	01080160-X		125			75				
007244	75	01080200-X		160			110				

Sip. No	VW/AUDI 39D863	FORD WDX 13-65	W	L	w1	L1	L2	d1	d	t	Civata
007245	76	01080250-X	100	200	50	40	150	20	13.5	13	M12 x 25
007246		01080315-X		250			170				
007247		01100100-X		315			235				
007248	83	01100125-X		100		25	50	20	13.5	13.5	
007249	84	01100160-X		125			75				
007250	85	01100200-X		160			110				
007251	86	01100250-X		200			150				
007252		01100315-X		250		40	170				
007253				315			235				

Sip. No	VW/AUDI 39D863	FORD WDX 13-65	W	L	w1	w2	w3	L1	L2	d1	d	t	Form	Civata
007254	71		80	50	25	30		25		15	9	9	A	M8 X 25
007255	81	01100050-X	100	50	25	50		25		20	13.5	13	A	M12 x 25
007256	82		100	80				40						
007257	91		125	50	25	75		25		20	13.5	13	A	
007258	92		125	80				40						
007259	93	01125100-X	125	100	25	37.5	37.5	25	50				C	
007260	94	01125125-X	125	125					75					
007261	95	01125160-X	125	160					110					
007262	96	01125200-X	125	200					150					
007263		01125250-X	125	250				40	170					
007264		01125315-X	125	315					235					
007265	101		160	50	25	110		25		20	13.5	13	A	
007266	102		160	80				40						
007267	103	01160100-X	160	100		55	55	25	50				C	
007268	104	01160125-X	160	125					75					
007269	105	01160160-X	160	160					110					
007270	106	01160200-X	160	200					150					
007271			160	250		110		40	170				B	
007272			160	315					235					
007273		01160250-X	160	250		55	55		170				C	
007274		01160315-X	160	315					235					







Ö19.01–Taşıma Mili

Malzeme : Çelik

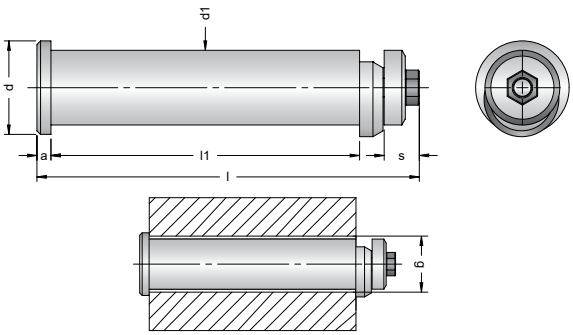
DİKKAT! Kalıp çevirme için kullanılırken yükleme sadece iki pim ile yapılmalıdır.

Sipariş Örneği: Ö19.01_d1

Sip. No	d1	PSA MABEC CODE	Taşıma 2 Adet	d	L	L1	a	S	s1
007275	32	P953254770	6400 kg	40	154	132	6	10	5
007276	40	P953255870	10000 kg	50	197.75	170	8	12.5	6

Sip. No	d1	PSA MABEC CODE	Taşıma 2 Adet	d	L	L1	a	S	s1
007277	50	P953256670	16000 kg	63	247.6	212	10	16	8
007278	63	P953257470	25000 kg	80	309	265	12	20	10





Ö19.02–Taşıma Mili

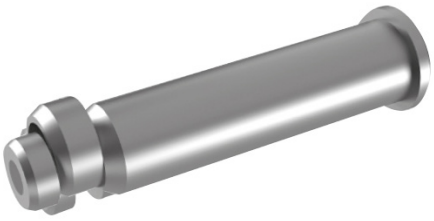
Malzeme : Çelik

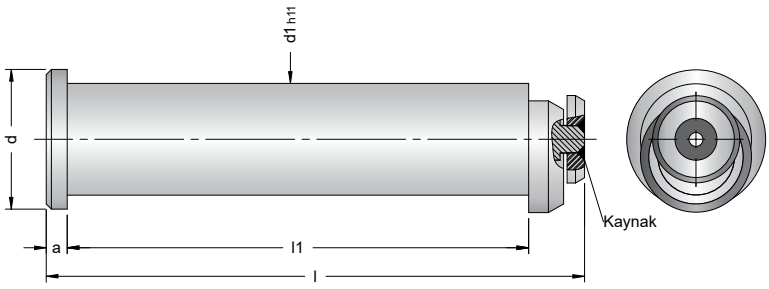
DİKKAT! Kalıp çevirme için kullanılırken yükleme sadece iki pim ile yapılmalıdır.

Sipariş Örneği: Ö19.02_g

Sip. No	g	Taşıma Kapasitesi (kg) 2 Adet	d	L	L1	d1	a	s
007279	16	1200	25	102.5	77	15.6	6	11.5
007280	21	2000	30	113.5	86	20.6	6	13.5
007281	26	4000	35	128.5	100	25.6	6	13.5

Sip. No	g	Taşıma Kapasitesi (kg) 2 Adet	d	L	L1	d1	a	s
007282	34	8000	43	166.5	135	33	6	15.5
007283	44	14000	53	215.5	175	43	8	20.5





Ö19.03–Taşıma Mili

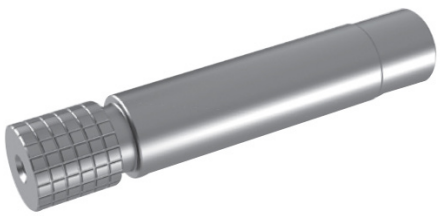
Malzeme : Çelik

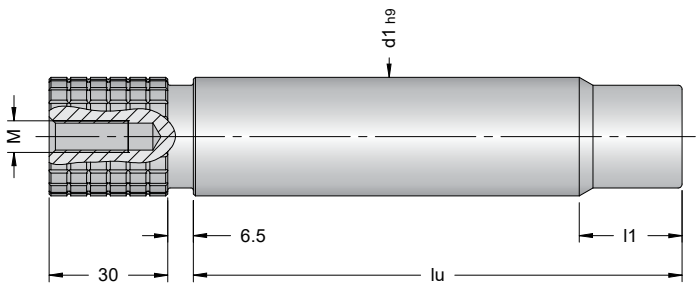
DİKKAT! Kalıp çevirme için kullanılırken yükleme sadece iki pim ile yapılmalıdır.

Sipariş Örneği: Ö19.03_d1

Sip. No	FORD CODE WDX2260	d1	Taşıma Kapasitesi 2 Adet	d	a	L	L1
007284	0135	35	3200 kg	45	12	162.5	125
007285	0150	50	8000 kg	63	12	227.5	190

Sip. No	FORD CODE WDX2260	d1	Taşıma Kapasitesi 2 Adet	d	a	L	L1
007286	0163	63	12500 kg	75	12	317.5	280
007287	0180	80	31500 kg	95	12	357.5	320





Ö19.50–Emniyet Pimi

Malzeme : Çelik

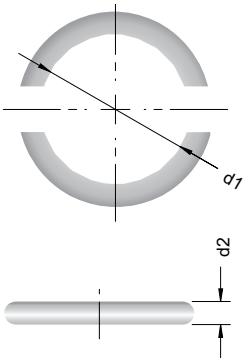
DİKKAT! Kalıp çevirme için kullanılırken yükleme sadece iki pim ile yapılmalıdır.

Sipariş Örneği: Ö19.50_d1 x LU

Sip. No	d1	LU	PSA MABEC CODE	RENAULT MABEC CODE	L1	M
007288	20	81	Z000 400 337	R100 306 188	19	M8
007289	25	81	Z000 400 338	R100 306 190	19	M8
007290	25	98	Z000 400 339	R100 306 191	19	M8
007291	32	103	Z000 400 487	R100 306 194	26	M8
007292	32	148	Z000 400 342	R100 306 198	26	M8
007293	40	132	Z000 400 345	R100 306 201	33	M10

Sip. No	d1	LU	PSA MABEC CODE	RENAULT MABEC CODE	L1	M
007294	40	192	Z000 400 346	R100 306 204	33	M10
007295	50	165	Z000 400 349	R100 306 207	41	M10
007296	50	220	Z000 400 350	R100 306 209	41	M10
007297	63	210	Z000 400 353	R100 306 210	51	M12
007298	63	250	Z000 400 354	R100 306 213	51	M12
007299	80	210	Z000 400 846	R100 357 232	51	M12



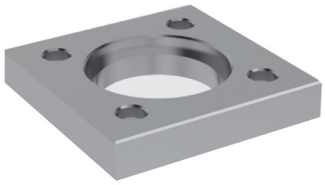


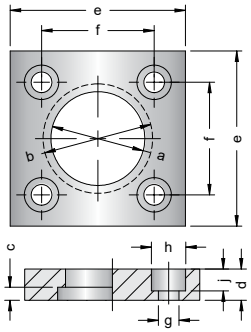
Ö12.02–Kolon Tutucu Flanş

Malzeme : 1040

Sipariş Örneği: Ö12.02_A

Sip. No	RENAULT MABEC CODE	A	D1	D2
007300	P446 180 200	25	22.5	2.5
007301	P446 180 300	32	28	4
007302	P446 180 400	40	36	4
007303	P446 180 500	50	46	4
007304	P446 180 600	63	57	6
007305	P446 180 700	80	74	6
007306	P446 180 800	100	94	6





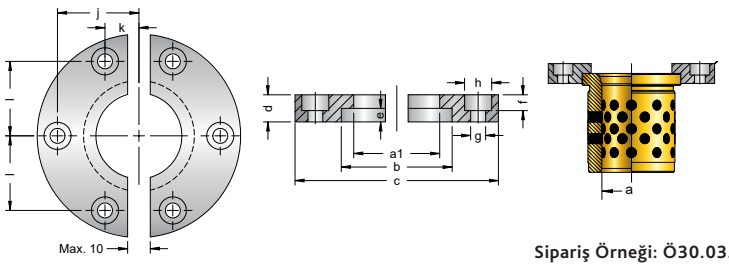
Ö12.01–Kolon Tutucu Flanş

Malzeme : Ck 45

Sipariş Örneği: Ö12.01_A

Sip. No	PSA MABEC CODE	RENAULT MABEC CODE	A	B	G	H	J	D	C	E	F
007307	Z000 248 844	P483 784 100	25	28	6.6	11	7	10	2.7	45	31
007308	P446 932 711	P483 784 600	32	37	6.6	11	7	10	4.2	56	36
007309	P446 932 701	P483 795 100	40	45	6.6	11	7	12	4.2	70	50
007310	P446 932 702	P483 795 401	50	55	9	16	9	14	4.2	80	55
007311	P446 932 703	P483 795 801	63	70	11	18	11	18	6.2	100	70
007312	P446 932 704	P483 796 001	80	87	13	22	14	20	6.2	110	80
007313		P483 796 401	100	107	13	22	14	20	6.2	140	100



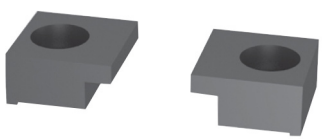


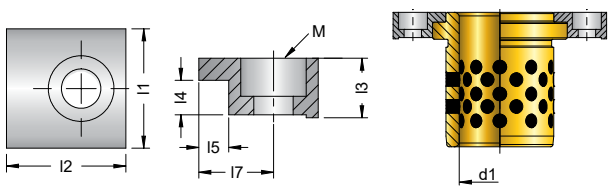
Ö30.03.01–Burç Tutucu Flanş

Malzeme : Ck 45

Sipariş Örneği: Ö30.03.01_A

Sip. No	PSA MABEC CODE	RENAULT MABEC CODE	A	A1	B	C	D	E	F	G	H	K	J	L
007314		M321 534 500	25	32	41	72	10	5	7	6.6	12	20		20
007315	P446 932 717	M321 544 501	32	40	51	80	12	6	7	6.6	12	21		25
007316	P446 932 712	M321 548 501	40	50	61	100	12	8	7	6.6	12	14	41	38.5
007317	P446 932 713	M321 552 601	50	63	72	125	16	10	9	9	16	17	49	46
007318	P446 932 714	M321 556 601	63	80	91	140	20	12	11	11	18	17	57.5	55
007319	P446 932 715	M321 560 601	80	100	113	180	25	16	13	14	22	20	72	70
007320		M321 562 700	100	125	141	200	32	20	13	14	22	25	85	81



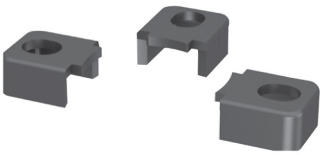


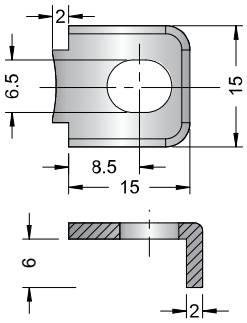
Ö90.01–Bağlama Papucu

Sertlik : 40–42 HRC

Sip. No	FORD CODE	BMW CODE	PSA MABEC	D1	L1	L2	L3	L4	L5	L6	L7	D2	D3
007321	WDX 1360 0901	B2 978 11 2168834		25	20	20	10	6.3	5	7	12.5	11	7
007322				32									
007323				40									
007324				50									
007325	WDX 1360 0902	B2 2978 11 2168842	Z000 263005	63	32	32	16	10	10	11.5	21	17	11
007326				80									
007327				100									
007328				125									
007329				160									

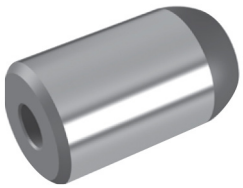
Sip. No	FORD CODE	BMW CODE	PSA MABEC	D1	L1	L2	L3	L4	L5	L6	L7	D2	D3
007330	WDX 1360 1001			25	32	32	16	6	10	11.5	21	17	11
007331				32									
007332				40									
007333				50									
007334				63									
007335				80									
007336				100									
007337				125									

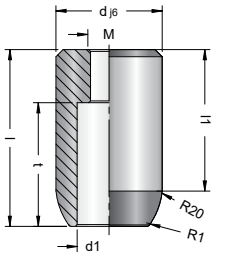




Ö90–Bağlama Papucu

Sertlik : 40–42 HRC



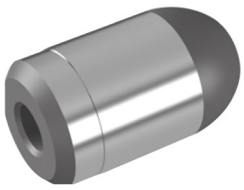


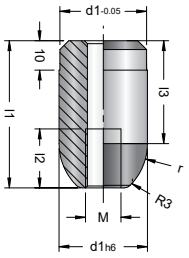
Ö51.01–Merkezleme Pimi

Sipariş Örneği: Ö51.01_d x L

Sip. No	d	l	l1	d1	t	M	r
007338	22	45	37.5	14	25	M10	20
007339	32	50	40	18	35	M12	20

Sip. No	d	l	l1	d1	t	M	r
007340	40	55	40	18	35	M12	20
007341	50	55	40	18	35	M12	20

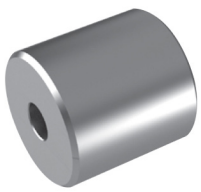


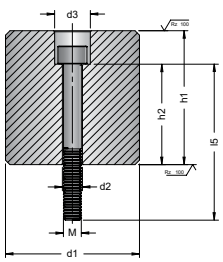


Ö51.02–Merkezleme Pimi

Sipariş Örneği: Ö51.02_d1 x l1

Sip. No	VW/AUDI CODE	d1	l1	l2	l3	d2	M	r
007342	39V1205/1	22	45	16	35	21.95	M8	15
007343	39V1205/2	22	55	16	45	21.95	M8	15
007344		32	50	20	35	31.95	M10	20
007345	39V1205/3	40	55	20	35	39.95	M10	25
007346	39V1205/4	40	65	20	45	39.95	M10	25
007347	39V1205/5	40	85	20	65	39.95	M10	25
007348		50	55	20	35	49.95	M10	25





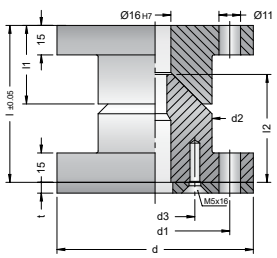
Ö17.01–Stoplama Bloğu

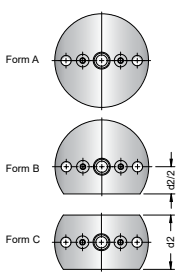
Sipariş Örneği: Ö17.01_d1

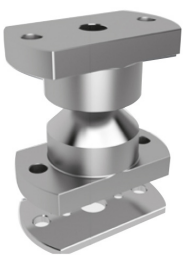
Sip. No	VW/AUDI CODE	d1	d2	d3	h1	Taşıma Yükü	Adet
007349	39V1162/14	60	14	20	1)	< 1800 kN	4
007350	39V1162/15	80				≥ 1800–3400 kN	
007351	39V1162/25	100	18	26		> 3400–5300 kN	
007352	39V1162/17	120	22	33		> 5300–10000 kN	
007353	39V1162/18	150				> 10000–25000 kN	8

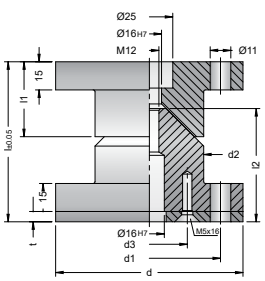
DIN EN ISO 4762	M12		M16		M20	
h1 1)	h2	L5	h2	L5	h2	L5
> 040 - 060	22	40	20	40	15	50
> 060 - 080	42	60	36	60	30	60
> 080 - 100	62	80	56	80	50	80
> 100 - 120	82	100	76	100	70	100
> 120 - 160	102	120	96	120	90	120
> 140 - 160	122	140	116	140	110	140











Ö55.01–Konik Merkezleme

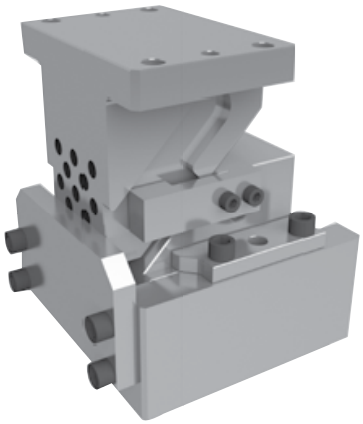
Sipariş Örneği: Ö55.01_d

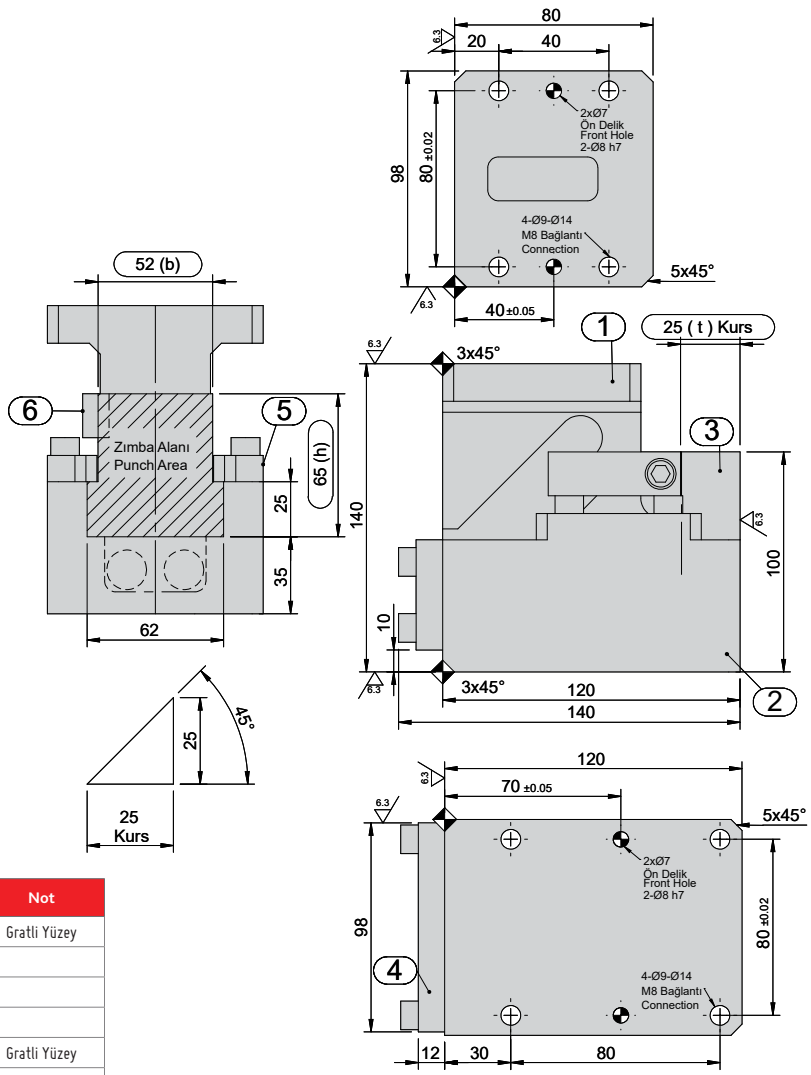
Sip. No	VW/AUDI CODE	d	l	d1	d2	d3	l1	l2	t	Form
007354		100	80	76	58	40.5	40	55	5.5	A
007355		120	90	96	78	50.5	50	65	5.5	A
007356		100	80	76	58	40.5	40	55	5.5	B
007357		120	90	96	78	50.5	50	65	5.5	B
007358		100	80	76	58	40.5	40	55	5.5	C
007359		120	90	96	78	50.5	50	65	5.5	C
007360	39V1168/10	100	80	76	58	40.5	40	55	10	A
007361	39V1168/12	120	90	96	78	50.5	50	65	10	A
007362	39V1168/14	100	80	76	58	40.5	40	55	10	B
007363	39V1168/16	120	90	96	78	50.5	50	65	10	B
007364	39V1168/18	100	80	76	58	40.5	40	55	10	C
007365	39V1168/20	120	90	96	78	50.5	50	65	10	C

Ö55.02–Konik Merkezleme

Sipariş Örneği: Ö55.02_d

Sip. No	d	l	d1	d2	d3	l1	l2	t	Form
007366	100	80	76	58	40.5	40	55	5.5	A
007367	120	90	96	78	50.5	50	65	5.5	A
007368	100	80	76	58	40.5	40	55	5.5	B
007369	120	90	96	78	50.5	50	65	5.5	B
007370	100	80	76	58	40.5	40	55	5.5	C
007371	120	90	96	78	50.5	50	65	5.5	C
007372	100	80	76	58	40.5	40	55	10	A
007373	120	90	96	78	50.5	50	65	10	A
007374	100	80	76	58	40.5	40	55	10	B
007375	120	90	96	78	50.5	50	65	10	B
007376	100	80	76	58	40.5	40	55	10	C
007377	120	90	96	78	50.5	50	65	10	C
007378	100	80	76	58	40.5	40	55	10.5	C
007379	120	90	96	78	50.5	50	65	10.5	C





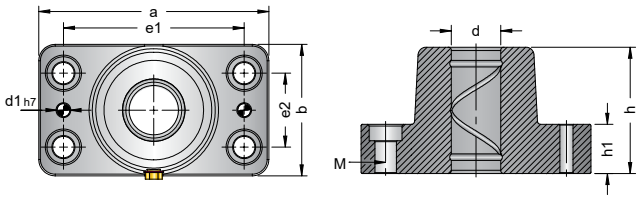
Ö88–Kam

Malzeme : Çelik
Sertlik : 60–64 HRC

No	Parça Adı	Adet	Malzeme	Not
1	Üst Gövde	1	SO#50F	Gratli Yüzey
2	Alt Gövde	1	SO#50F	
3	Sürücü	1	SO#50F	
4	Arka Kapak	1	Çelik 55-60 HRC	
5	Üst Yan Kapak	2	Çelik	Gratli Yüzey
6	Yan Klavuz Kol	1	Çelik 55-60 HRC	

Sip. No	Yay Ölçüleri		İlk Durum		Final		Zımba Alanı B x H (mm)	Maks. Çalışma Gücü (kN)	Kurs (mm)
	Ø Yay (mm)	Serbest Boy (mm)	Uzunluk (mm)	Yükleme (N)	Uzunluk (mm)	Yükleme (N)			
007380	20	70	62	150	37	600	52 x 65	10	25
007381	20	100	92	100	52	610	52 x 65	10	40
007382	20	150	137	110	77	620	52 x 65	10	60
007383	22	100	92	130	52	770	65 x 70	18	40
007384	22	150	137	130	77	770	65 x 70	18	60
007385	27	100	92	190	52	1150	100 x 100	30	40
007386	27	150	137	210	77	1170	100 x 100	30	60
007387	30	200	188	173	108	1325	100 x 100	30	80
007388	35	100	92	320	52	1880	150 x 100	60	40
007389	35	150	137	340	77	1900	150 x 100	60	60
007390	35	100	92	470	52	2820	200 x 110	80	40
007391	35	150	137	510	77	2850	200 x 110	80	60
007392	40	100	92	620	52	3690	250 x 130	100	40
007393	40	150	137	660	77	3720	250 x 130	100	60
007394	40	100	92	620	52	3690	300 x 130	130	40
007395	40	150	137	660	77	3720	300 x 130	130	60
007396	60	150	148	156	88	4760	400 x 150	140	60
007397	60	150	148	310	88	9520	500 x 150	140	60
007398	60	150	148	310	88	9520	600 x 150	140	60



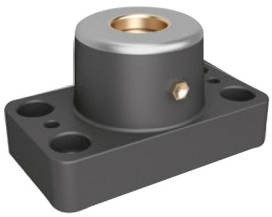


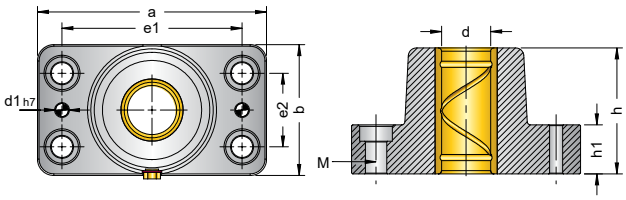
Ö70.01–Döküm Blok

Malzeme : GG25

Sipariş Örneği: Ö70.01_d

Sip. No	d	d1	h	h1	a	b	e1	e2	M
007399	40	10	77	30	130	80	95	45	12
007400	50	10	95	35	160	96	118	55	14
007401	63	12	120	35	180	110	132	62	16
007402	80	14	120	40	215	130	160	75	20





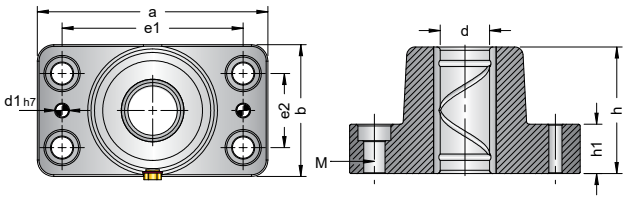
Ö70.02–Bronzlu Döküm Blok

Malzeme : GG25–Bronz

Sipariş Örneği: Ö70.02_d

Sip. No	d	d1	h	h1	a	b	e1	e2	M
007403	40	10	77	30	130	80	95	45	12
007404	50	10	95	35	160	96	118	55	14
007405	63	12	120	35	180	110	132	62	16
007406	80	14	120	40	215	130	160	75	20



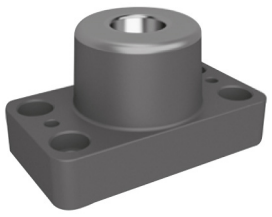


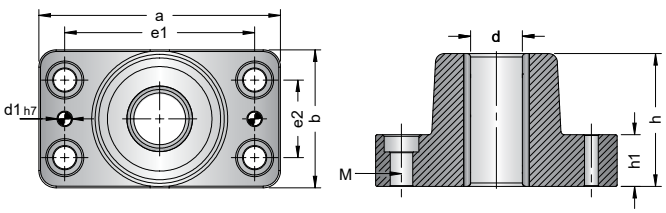
Ö70.03–Bronzlu Döküm Blok

Malzeme : GG25–1.7131 (16MnCr5)
Sertlik : 62±2 HRC
Isıl İşlem : Sementasyon

Sipariş Örneği:70.03_d

Sip. No	d	d1	h	h1	a	b	e1	e2	M
007407	40	10	77	30	130	80	95	45	12
007408	50	10	95	35	160	96	118	55	14
007409	63	12	120	35	180	110	132	62	16
007410	80	14	120	40	215	130	160	75	20



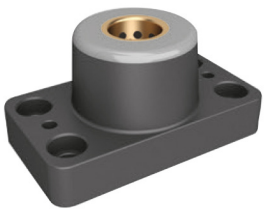


Ö70.04–Bilyalı Döküm Blok

Malzeme : GG25–1.3505 (100Cr6)
Sertlik : 62±2 HRC
Isıl İşlem : Sementasyon

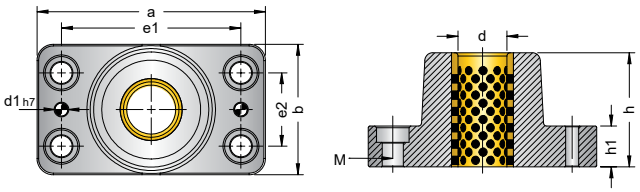
Sipariş Örneği: Ö70.04_d

Sip. No	d	d1	h	h1	a	b	e1	e2	M
007411	40	10	77	30	130	80	95	45	12
007412	50	10	95	35	160	96	118	55	14
007413	63	12	120	35	180	110	132	62	16
007414	80	14	120	40	215	130	160	75	20



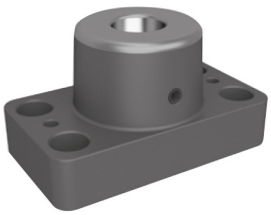
Ö70.05–Grafitli Döküm Blok

Malzeme : GG25–SAE 430B
Sertlik : HB≥180



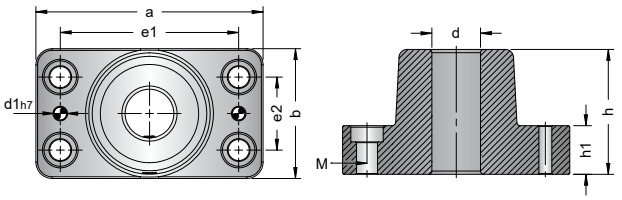
Sip. No	d	d1	h	h1	a	b	e1	e2	M
007415	40	10	77	30	130	80	95	45	12
007416	50	10	95	35	160	96	118	55	14
007417	63	12	120	35	180	110	132	62	16
007418	80	14	120	40	215	130	160	75	20

Sipariş Örneği: Ö70.05_d



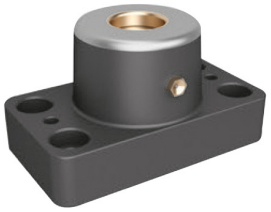
Ö70.10–Kolon Sabitleme Bloğu

Malzeme : GG25



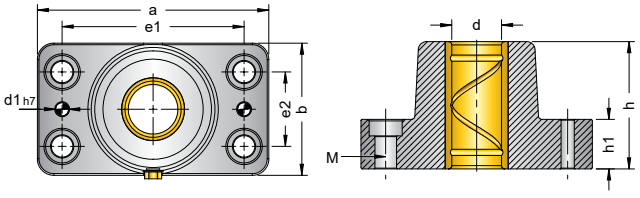
Sipariş Örneği: Ö70.10_d

Sip. No	d	d1	h	h1	a	b	e1	e2	M
007419	40	10	77	30	130	80	95	45	12
007420	50	10	95	35	160	96	118	55	14
007421	63	12	120	35	180	110	132	62	16
007422	80	14	120	40	215	130	160	75	20



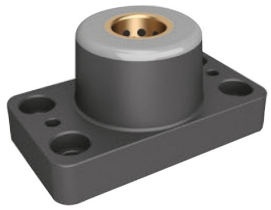
Ö71.02–Bronzlu Döküm Blok

Malzeme : GG25–1.7131 (16MnCr5)
Sertlik : 62±2 HRC
Isıl İşlem : Sementasyon



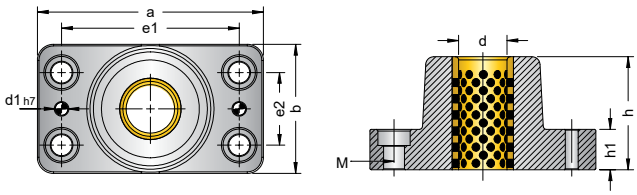
Sipariş Örneği: Ö71.02_d

Sip. No	d	d1	h	h1	a	b	e1	e2	M
007423	40	10	70	25	130	75	100	44	12
007424	50	10	85	25	155	90	125	60	12



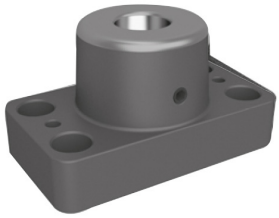
Ö71.05–Grafitli Döküm Blok

Malzeme : GG25–SAE 430B
Sertlik : HB≥180



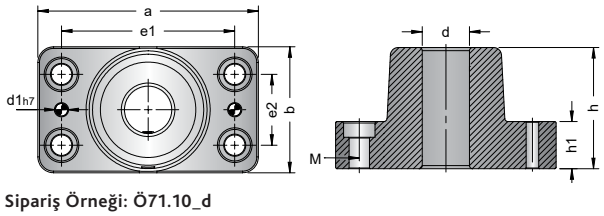
Sipariş Örneği: Ö71.02_d

Sip. No	d	d1	h	h1	a	b	e1	e2	M
007425	40	10	70	25	130	75	100	44	12
007426	50	10	85	25	155	90	125	60	12



Ö71.10–Kolon Sabitleme Bloğu

Malzeme : GG25



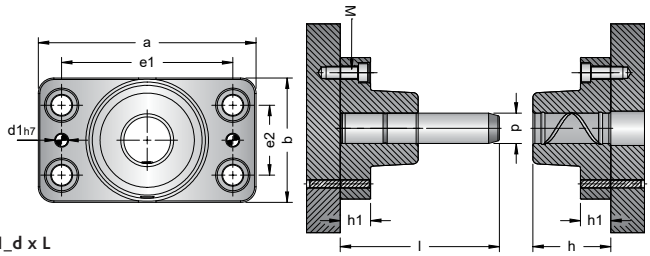
Sipariş Örneği: Ö71.10_d

Sip. No	d	d1	h	h1	a	b	e1	e2	M
007427	40	10	70	25	130	75	100	44	12
007428	50	10	85	25	155	90	125	60	12



Ö70.011–Döküm Set

Malzeme : GG25–1.1213 (Cf53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon



Sipariş Örneği: Ö70.011_d x L

Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007429	40	180	10	77	30	130	80	95	45	12
007430		220								
007431		260								
007432		300								
007433		355								
007434		400								
007435	50	200	10	95	35	160	96	118	55	14
007436		240								
007437		280								
007438		315								

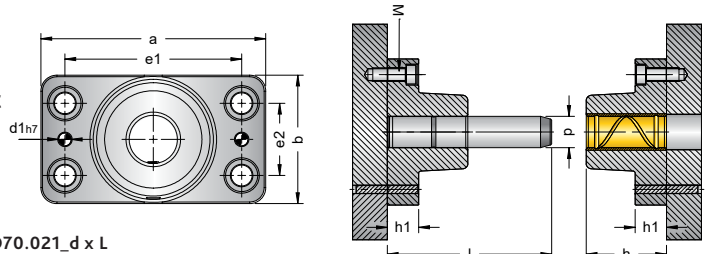
Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007439	50	355	10	95	35	160	96	118	55	14
007440		400								
007441		450								
007442	63	240	12	125	35	180	110	132	62	16
007443		280								
007444		315								
007445		355								
007446		400								
007447		450								
007448	80	240	14	120	40	215	130	160	75	20

Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007449	80	280	14	120	40	215	130	160	75	20
007450		315								
007451		355								
007452		400								
007453		450								
007454		500								



Ö70.021–Bronz Döküm Set

Malzeme : GG25–1.1213 (Cf53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon



Sipariş Örneği: Ö70.021_d x L

Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007455	40	180	10	77	30	130	80	95	45	12
007456		220								
007457		260								
007458		300								
007459		355								
007460		400								
007461	50	200	10	95	35	160	96	118	55	14
007462		240								
007463		280								
007464		315								

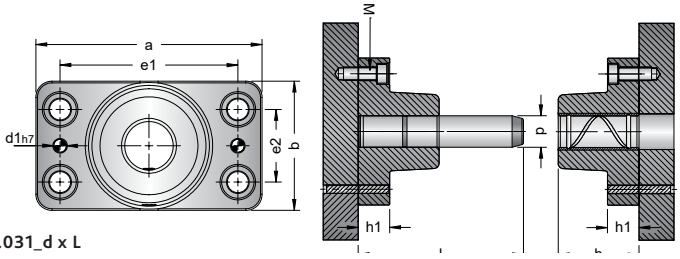
Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007465	50	355	10	95	35	160	96	118	55	14
007466		400								
007467		450								
007468	63	240	12	125	35	180	110	132	62	16
007469		280								
007470		315								
007471		355								
007472		400								
007473		450								
007474	80	240	14	120	40	215	130	160	75	20

Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007475	80	280	14	120	40	215	130	160	75	20
007476		315								
007477		355								
007478		400								
007479		450								
007480		500								



Ö70.031
Çelik Kaymalı Döküm Set

Malzeme : GG25–1.1213 (Cf53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon



Sipariş Örneği: Ö70.031_d x L

Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007481	40	180	10	77	30	130	80	95	45	12
007482		220								
007483		260								
007484		300								
007485		355								
007486		400								
007487	50	200	10	95	35	160	96	118	55	14
007488		240								
007489		280								
007490		315								

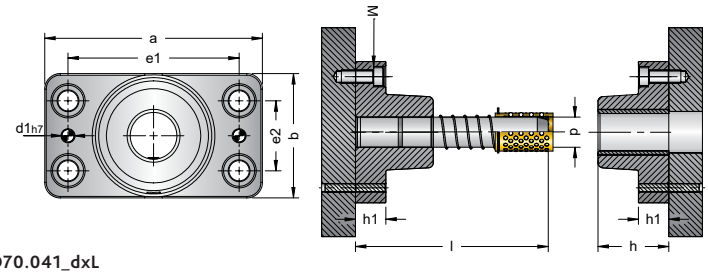
Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007491	50	355	10	95	35	160	96	118	55	14
007492		400								
007493		450								
007494	63	240	12	125	35	180	110	132	62	16
007495		280								
007496		315								
007497		355								
007498		400								
007499		450								
007500	80	240	14	120	40	215	130	160	75	20

Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007501	80	280	14	120	40	215	130	160	75	20
007502		315								
007503		355								
007504		400								
007505		450								
007506		500								



Ö70.041
Bilyalı Döküm Set

Malzeme : GG25–1.3505 (100Cr6)
Sertlik : 1.1213 (Cf53)
Isıl İşlem : 62 ± 2 HRC
Sementasyon–İndüksiyon



Sipariş Örneği: Ö70.041_dxL

Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007507	40	180	10	77	30	130	80	95	45	12
007508		220								
007509		260								
007510		300								
007511		355								
007512		400								
007513	50	200	10	95	35	160	96	118	55	14
007514		240								
007515		280								
007516		315								

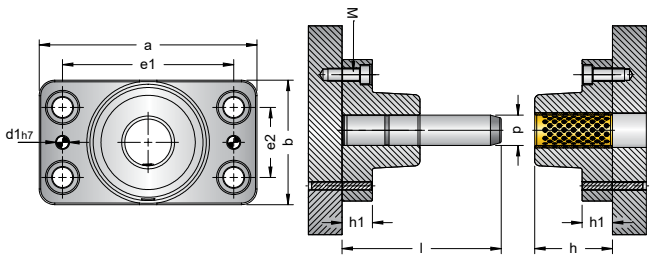
Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007517	50	355	10	95	35	160	96	118	55	14
007518		400								
007519		450								
007520	63	240	12	125	35	180	110	132	62	16
007521		280								
007522		315								
007523		355								
007524		400								
007525		450								
007526	80	240	14	120	40	215	130	160	75	20

Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007527	80	280	14	120	40	215	130	160	75	20
007528		315								
007529		355								
007530		400								
007531		450								
007532		500								



Ö70.051
Grafitli Döküm Set

Malzeme : GG25–SAE 430B
Sertlik : 1.1213 (Cf53)
Isıl İşlem : HB≥180–62 ± 2 HRC
Sementasyon–İndüksiyon



Sipariş Örneği: Ö70.051_dxL

Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007533	40	180	10	77	30	130	80	95	45	12
007534		220								
007535		260								
007536		300								
007537		355								
007538		400								
007539	50	200	10	95	35	160	96	118	55	14
007540		240								
007541		280								
007542		315								

Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007543	50	355	10	95	35	160	96	118	55	14
007544		400								
007545		450								
007546	63	240	12	125	35	180	110	132	62	16
007547		280								
007548		315								
007549		355								
007550		400								
007551		450								
007552	80	240	14	120	40	215	130	160	75	20

Sip. No	d	L	d1	h	h1	a	b	e1	e2	M
007553	80	280	14	120	40	215	130	160	75	20
007554		315								
007555		355								
007556		400								
007557		450								
007558		500								

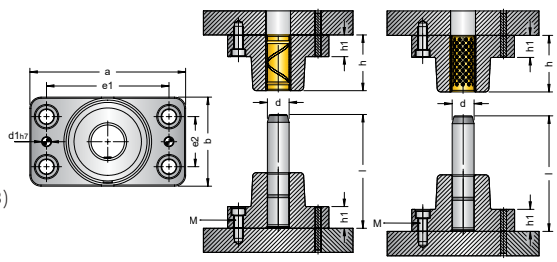


Ö71.021–Bronz Döküm Set

Malzeme : GG25–Bronz–1.1213 (Cf53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon

Ö71.051–Grafitli Döküm Set

Malzeme : GG25–SAE 430B–1.1213 (Cf53)
Sertlik : 62 ± 2 HRC
Isıl İşlem : İndüksiyon



Sipariş Örneği: Ö71.021/051_dxL

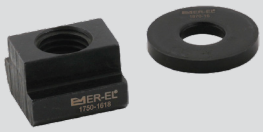
Sip. No Ö71.021	Sip. No Ö71.051	d	L	d1	h	h1	a	b	e1	e2	M
007559	007572	40	160	10	70	25	130	75	100	44	12
007560	007573		180								
007561	007574		200								
007562	007575		225								

Sip. No Ö71.021	Sip. No Ö71.051	d	L	d1	h	h1	a	b	e1	e2	M
007563	007576	40	250								
007564	007577		280								
007565	007578	50	160	10	85	25	155	90	125	60	12
007566	007579		180								

Sip. No D71.021	Sip. No D71.051	d	L	d1	h	h1	a	b	e1	e2	M
007567	007580	50	200								
007568	007581		225								
007569	007582		250								
007570	007583		280								
007571	007584		315								

KALIP VE İŞ PARÇASI BAĞLAMA SİSTEMLERİ













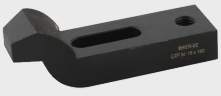










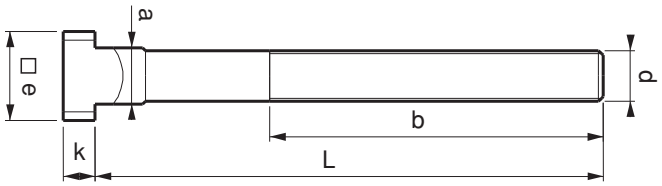






- Bağlama Pabuçları
- Destekler
- Civatalar
- Somun Pul Aksesuarlar
- Bağlama Setleri
- Mengeneler



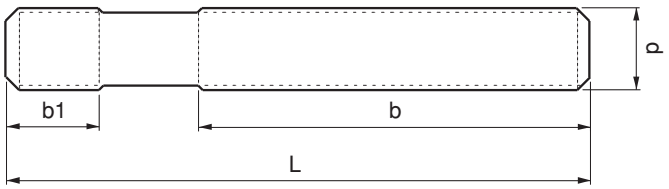


1610–T–Ayaklı Saplama

Sip. No	d x a x L		b	a	e	k	Sıkma Nm	Sıkma kN	(g)
007585	M6 x 6	x 25	15	5.7	10	4	17	17	19
007586		x 40	28						25
007587		x 63	40						36
007588	M8 x 8	x 32	22	7.7	12	6	43	32	39
007589		x 50	35						45
007590		x 80	50						56
007591	M10 x 10	x 40	23	9.7	15	6	79	51	65
007592		x 63	45						80
007593		x 80	50						90
007594		x 100	60						110
007595	M10 x 12	x 50	35	11.7	18	7	79	51	85
007596		x 63	40						95
007597		x 80	55						100
007598		x 100	60						110
007599		x 125	75						125
007600		x 160	90						140
007601		x 200	120						160
007602	M12 x 12	x 50	35	11.7	18	7	141	74	120
007603		x 63	40						128
007604		x 80	55						140
007605		x 100	65						160
007606		x 125	75						170
007607		x 160	100						195
007608		x 200	120						220
007609	M12 x 14	x 50	35	13.7	22	8	141	74	140
007610		x 63	45						150
007611		x 80	55						155
007612		x 100	65						175
007613		x 125	75						195
007614		x 160	100						220
007615		x 200	120						240
007616	M14 x 16	x 63	45	15.7	25	9	223	101	200
007617		x 80	55						230
007618		x 100	65						245
007619		x 125	75						270
007620		x 160	100						310
007621		x 200	120						340
007622		x 250	150						390
007623	M16 x 16	x 63	45	15.7	25	9	354	138	260
007624		x 80	55						285
007625		x 100	65						310
007626		x 125	85						345
007627		x 160	100						385
007628		x 200	120						435
007629		x 250	150						505
007630	M16 x 18	x 63	45	17.7	28	10	354	138	290
007631		x 80	55						305
007632		x 100	65						340
007633		x 125	85						370
007634		x 160	100						415
007635		x 200	120						460
007636		x 250	150						525
007637	M18 x 20	x 80	55	19.7	32	12	474	169	405
007638		x 100	65						435

Sip. No	d x a x L		b	a	e	k	Sıkma Nm	Sıkma kN	(g)
007639	M18 x 20	x 125	85	19.7	32	12	474	169	480
007640		x 160	110						535
007641		x 200	125						610
007642		x 250	150						680
007643		x 315	190						790
007644	M20 x 20	x 80	55	19.7	32	12	679	215	480
007645		x 100	65						515
007646		x 125	85						570
007647		x 160	110						635
007648		x 200	125						725
007649		x 250	160						820
007650		x 315	190						950
007651	M20 x 22	x 80	55	21.7	35	14	679	215	530
007652		x 100	65						565
007653		x 125	85						620
007654		x 160	110						690
007655		x 200	125						775
007656		x 250	150						880
007657		x 315	190						1050
007658	M22 x 24	x 80	55	23.7	40	16	903	266	700
007659		x 100	65						740
007660		x 125	85						805
007661		x 160	110						890
007662		x 200	125						1000
007663		x 250	150						1115
007664		x 315	190						1280
007665	M24 x 24	x 100	70	23.7	40	16	1163	310	885
007666		x 125	85						970
007667		x 160	110						1060
007668		x 200	125						1180
007669		x 250	150						1320
007670		x 315	190						1515
007671		x 400	240						1750
007672	M24 x 28	x 100	70	27.7	44	18	1163	310	1000
007673		x 125	85						1065
007674		x 160	110						1150
007675		x 200	125						1280
007676		x 250	150						1425
007677		x 315	190						1640
007678		x 400	240						1870
007679		x 500	290						2170
007680	M30 x 36	x 125	80	35.6	54	22	2258	493	1900
007681		x 160	110						2065
007682		x 200	135						2250
007683		x 250	150						2500
007684		x 315	200						2770
007685		x 500	300						3630
007686	M36 x 42	x 160	100	41.6	65	26	3950	719	3310
007687		x 250	175						3930
007688		x 400	250						5010
007689		x 600	340						6900
007690	M42 x 48	x 160	100	47.6	75	30	6337	986	4600
007691		x 250	175						5600
007692		x 400	250						7200



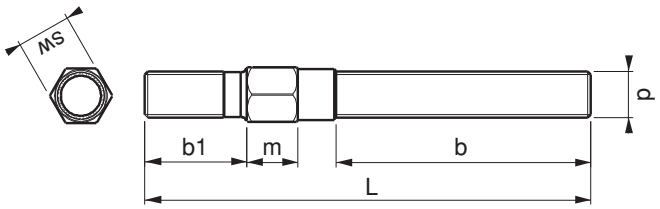


1690–Düz Saplama

Sip. No	d x L		b1	b	Sıkma		(g)
					Nm	kN	
007693	M8	x 40	11	20	36	27	10
007694		x 63		40			15
007695		x 80		50			20
007696		x 100		63			30
007697		x 125		75			35
007698		x 160		100			45
007699	M10	x 50	13	25	67	43	20
007700		x 63		32			25
007701		x 80		50			35
007702		x 100		63			45
007703		x 125		75			55
007704		x 160		100			70
007705		x 200		125			95
007706	M12	x 50	15	25	120	63	35
007707		x 63		32			40
007708		x 80		50			55
007709		x 100		63			70
007710		x 125		75			90
007711		x 160		100			115
007712		x 200		125			140
007713	M14	x 63	17	32	191	86	60
007714		x 80		50			75
007715		x 100		63			95
007716		x 125		75			120
007717		x 160		100			150
007718		x 200		125			198
007719		x 250		160			240
007720	M16	x 63	19	32	302	118	85
007721		x 80		50			105
007722		x 100		63			130
007723		x 125		75			160
007724		x 160		100			205
007725		x 200		125			260
007726		x 250		160			325
007727		x 315		180			405
007728		x 500		315			650
007729	M18	x 80	23	50	405	144	130
007730		x 100		60			160
007731		x 125		75			200
007732		x 160		100			260
007733		x 200		125			320
007734		x 250		150			400
007735		x 315		180			510

Sip. No	d x L		b1	b	Sıkma		(g)
					Nm	kN	
007736	M20	x 80	27	32	580	184	155
007737		x 100		60			200
007738		x 125		70			250
007739		x 160		100			330
007740		x 200		125			400
007741		x 250		160			510
007742		x 315		200			640
007743		x 400		250			815
007744		x 500		315			1020
007745	M22	x 100	31	45	772	228	250
007746		x 125		70			305
007747		x 160		100			400
007748		x 200		125			500
007749		x 250		160			620
007750		x 315		180			780
007751		x 400		250			1010
007752	M24	x 100	35	45	994	265	290
007753		x 125		70			365
007754		x 160		100			470
007755		x 200		125			580
007756		x 250		160			730
007757		x 315		200			920
007758		x 400		250			1170
007759		x 500		315			1470
007760		x 630		315			1860
007761	M30	x 125	43	56	1930	421	570
007762		x 200		125			910
007763		x 250		160			1150
007764		x 315		200			1435
007765		x 500		315			2315
007766		x 700		400			3215
007767		x 1000		400			4700
007768	M36	x 160	51	80	3378	614	1100
007769		x 200		125			1340
007770		x 250		160			1710
007771		x 315		200			2150
007772		x 400		250			2700
007773		x 500		315			3450
007774		x 700		400			4750
007775	M42	x 315	59	200	5415	843	2950
007776		x 400		250			3750
007777		x 500		315			4690

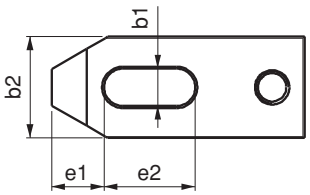


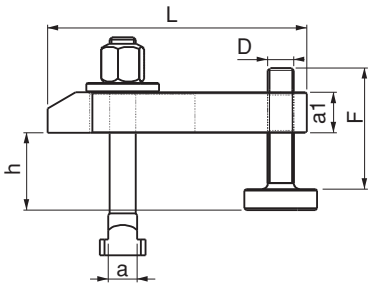


Sip. No	d	L	b	b1	m	sw	Sıkma Verileri		(g)
							Nm	kN	
007778	M12	130	65	24	14	14	120	63	160
007779		160	90						185
007780	M14	130	65	28	15	15	191	86	216
007781		160	90						246
007782	M16	140	70	32	16	17	302	118	310
007783		160	95						340
007784	M18	150	70	35	19	19	405	144	395
007785		180	95						450
007786	M20	150	70	40	22	22	580	184	520
007787		180	95						575
007788	M22	150	70	40	22	24	772	228	610
007789		180	95						705
007790	M24	170	75	47	22	27	994	265	875
007791		205	105						990
007792		250	140						1125
007793	M30	250	135	55	32	36	1930	421	1950
007794		315	195						2260

1670–Anahtar Ağızlı Saplama



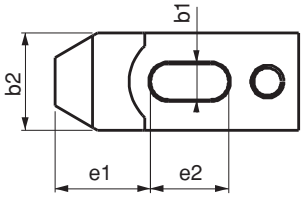


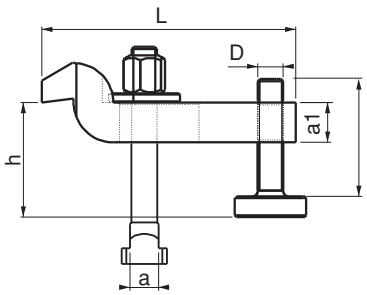


1170–Ayarlanabilir Destek Civatalı Kombine Bağlama Pabucu

Sip. No	a	L	a1	b2	e1	e2	b1		h	D x F	(g)
007795	10	80	15	30	15	30	11	M10 x 10 x 80	10–35	M10 x 42	370
007796	12	100	20	40	21	40	14.5	M12 x 12 x 100	12–40	M12 x 50	740
007797	12	125	20	40	21	50	14.5	M12 x 12 x 160	12–85	M12 x 95	940
007798	14	100	20	40	21	40	14.5	M12 x 14 x 100	12–40	M12 x 50	705
007799	14	125	20	40	21	50	14.5	M12 x 14 x 160	12–85	M12 x 95	965
007800	16	125	25	50	26	45	18.5	M16 x 16 x 125	15–50	M16 x 62	1115
007801	16	160	25	50	26	65	18.5	M16 x 16 x 160	15–85	M16 x 97	1870
007802	18	125	25	50	26	45	18.5	M16 x 18 x 125	15–50	M16 x 62	1540
007803	18	160	25	50	26	65	18.5	M16 x 18 x 160	15–85	M16 x 97	1900
007804	20	160	30	60	30	60	22.5	M20 x 20 x 160	15–45	M20 x 62	1675
007805	20	200	30	60	30	80	22.5	M20 x 20 x 200	15–80	M20 x 97	3295
007806	22	160	30	60	30	60	22.5	M20 x 22 x 160	15–45	M20 x 62	2730
007807	22	200	30	60	30	80	22.5	M20 x 22 x 200	15–80	M20 x 97	3340
007808	24	160	30	70	35	60	26.5	M24 x 24 x 160	16–60	M24 x 81	3465
007809	24	200	30	70	35	80	26.5	M24 x 24 x 200	16–95	M24 x 116	4660
007810	28	160	30	70	35	60	26.5	M24 x 28 x 160	16–60	M24 x 81	560
007811	28	200	30	70	35	80	26.5	M24 x 28 x 200	16–95	M24 x 116	4755





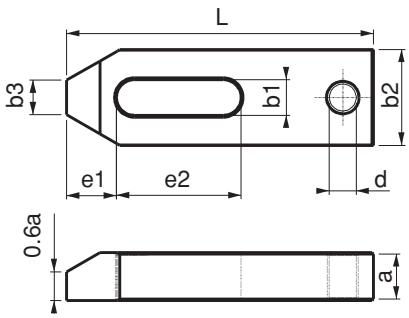


1190–Ayarlanabilir Destek Civatalı Kombine Bağlama Pabucu Z-Pabuç

Sip. No	a	L	a1	b2	e1	e2	b1		h	D x F	(g)
007812	10	100	15	30	32	32	11	M10 x 10 x 80	26–50	M10 x 42	405
007813	12	125	20	40	40	40	14.5	M12 x 12 x 100	33–60	M12 x 50	870
007814	14	125	20	40	40	40	14.5	M12 x 14 x 100	37–60	M12 x 50	890
007815	16	160	25	50	49	50	18.5	M16 x 16 x 125	41–75	M16 x 62	1785
007816	18	160	25	50	49	50	18.5	M16 x 18 x 125	41–75	M16 x 62	1810
007817	20	200	30	60	55	70	22.5	M20 x 20 x 160	46–75	M20 x 62	3105
007818	22	200	30	60	55	70	22.5	M20 x 22 x 160	46–75	M20 x 62	3155
007819	24	200	35	70	72	60	26	M24 x 24 x 200	52–95	M24 x 81	4695
007820	28	200	35	70	72	60	26	M24 x 28 x 200	52–95	M24 x 81	4790



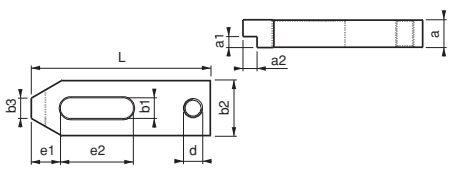
1330–Destek Delikli Düz Papuç



Sip. No	L	b1	metrik	whitworth	a	b2	b3	e1	e2	d	(g)
007821	50	6.6	M6	1/4	10	20	8	10	20	M8	50
007822	60	9	M8	5/16	12	25	10	13	22	M8	105
007823	80	11	M10	3/8	15	30	12	15	30	M10	210
007824	100	14.5	M12–M14	1/2	20	40	14	21	40	M12	465
007825	125							21	50		590
007826	125	18.5	M16–M18	5/8	25	50	18	26	45	M16	930
007827	160								65		1200
007828	160	22.5	M20–M22	3/4	30	60	22	30	60	M20	1710
007829	200				30	60	22		80		2170
007830	250				35	70	30		100		3885
007831	160	26	M24	1	30	70	26	35	60	M24	1965
007832	200				35	70	26		80		2920
007833	250				35	70	26		100		3720
007834	315				40	80	35		100		6435
007835	250	33	M30	11/4	40	80	34	45	100	M24	4825
007836	315				50				130		7665
007837	400	43	M36–M42	11/2	58	100	43	100	150	M30	14490

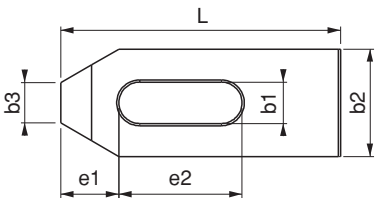


1370–Kademeli Destek Delikli Düz Papuç



Sip. No	L	b1	metrik	whitworth	a	b2	a1 x a2	b3	e1	e2	d	(g)
007838	80	11	M10	3/8	15	30	5 x 8	12	15	30	M10	180
007839	100	14.5	M12 -14	1/2	20	40	8 x 10	14	21	40	M12	410
007840	125									50		590
007841	125	18.5	M16–18	5/8	25	50	10 x 12.5	18	26	45	M16	910
007842	160									65		1180
007843	160	22.5	M20–22	3/4	30	60	12 x 15	22	30	60	M20	1575
007844	200									80		2150
007845	160	26	M24	1	30	70	12 x 15	26	35	60	M24	1800
007846	200				35		14 x 17			80		2875
007847	250				35		14 x 17			100		3500



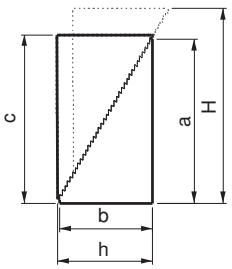


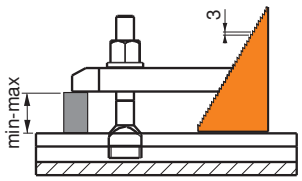
1290–Merdiven Diş Bağlama Pabucu

Sip. No	L	b1	metrik	whitworth	a	b2	b3	e1	e2
007848	50	6.6	M6	1/4	10	20	8	10	20
007849	80								30
007850	60	9	M8	5/6	12	25	10	13	22
007851	100								45
007852	80	11	M10	3/8	15	30	12	15	30
007853	100								45

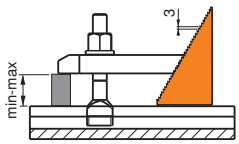
Sip. No	L	b1	metrik	whitworth	a	b2	b3	e1	e2
007854	100	14.5	M12–M14	1/2	20	40	14	21	45
007855	125								55
007856	125	18.5	M16–M18	5/8	25	50	18	26	55
007857	160								65





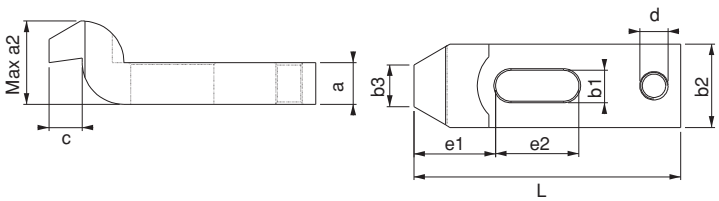


1310–Merdiven Diş Destek



Sip. No	h–H	a	b	c	min–max	(g)
007858	37–85	57	35	60	0–40	505
007859	48–112	73	45	76	0–60	825
007860	58–139	90	55	93	0–75	1250
007861	66–165	108	64	111	0–90	685



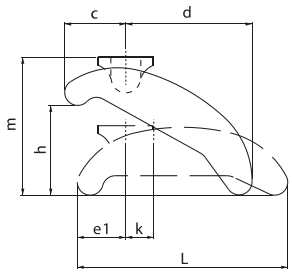


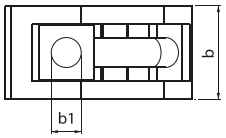
1450–Destek Delikli Z–Bağlama Pabucu

Sip. No	L	b1	metrik	whitworth	a	a2	b2	b3	c	e1	e2	d	(g)
007862	60	6.6	M6	1/4	10	20	20	10	8	20	20	M8	80
007863	80	9	M8	5/16	12	24	25	12	9	25	25	M8	170
007864	100	11	M10	3/8	15	30	30	15	12	32	32	M10	245
007865	125	14.5	M12–M14	1/2	19	40	38	20	16	40	40	M12	600
007866	125	18.5	M16–M18	5/8	24	50	48	25	20	49	40	M16	925
007867	160										50		1205
007868	160	22.5	M20–M22	3/4	29	58	58	30	24	55	55	M20	1705

Sip. No	L	b1	metrik	whitworth	a	a2	b2	b3	c	e1	e2	d	(g)
007869	200	22.5	M20–M22	3/4	29	58	58	30	24	55	70	M20	2145
007870	160	26	M24	1	33	70	70	35	28	53	55	M24	2110
007871	200									72	60		3070
007872	250									72	80		3710
007873	250	33	M30	11/4	38	80	77	40	40	91	80	M24	4635
007874	315				48	100					100		7050



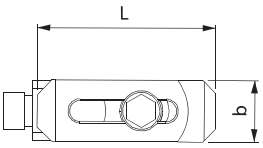


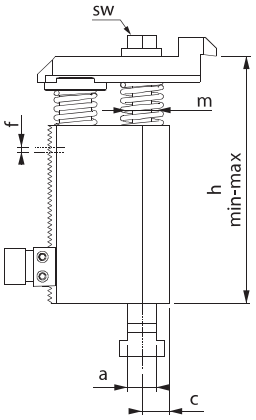


1210–Kademeli Bağlama Pabucu

Sip. No	b1	a	DIN 6379 d x L	m	h	b x L	c	d	e1	k x 4	(kg)
007875	13	12-14	-	52	0-40	40x90	28	48	23	14	340
007876	17	16-18	-	80	0-60	58x130	38	74	29	18	990
007877	21	20-22	-	98	0-75	68x140	46	80	32	20	1450
007878	25	24-28	-	110	0-90	78x175	52	100	39	24	2360
007879	13	12	M12x12x100	52	0-40	40x90	28	48	23	14	400
007880	13	14	M12x14x100	52	0-40	40x90	28	48	23	14	420
007881	17	16	M16x16x160	80	0-60	58x130	38	74	29	18	1140
007882	17	18	M16x18x160	80	0-60	58x130	38	74	29	18	1145
007883	21	20	M20x20x200	98	0-75	68x140	46	80	32	20	1560



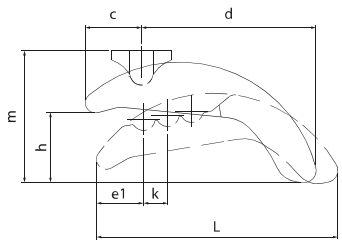


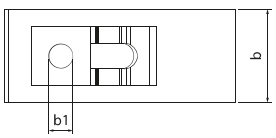


1250–Kombine Bağlama Pabuç

Sip. No	a	h min-max	f	c	L	b	m	sw	Sıkma Kuvveti Kgf	Nm	(kg)
007884	14-16-18-20-22	80-137	3	17	110	38	M12	19	2250	85	2015
007885		125-224	3	17	110	38	M12	19	2250	85	2910
007886		160-300	3	17	110	38	M12	19	2250	85	3665



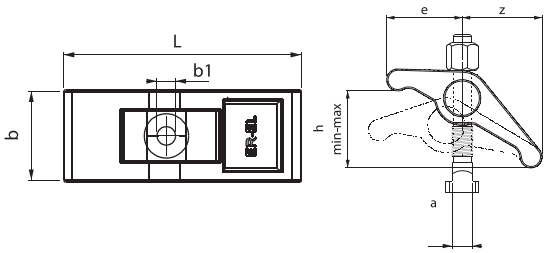




1205–Kademeli Bağlama Pabucu

Sip. No	b1	a	DIN 787	m	h	b x L	c	d	e1	k x 3	(g)
007887	17	16-18	-	93	15-50	65x165	39	128	30	17	2100
007888	21	20-22	-	111	20-65	75x189	43	146	33	19	3200
007889	25	24-28	-	126	20-75	85x213	49	164	39	21	4500
007890	31	36	-	143.5	20-85	95x238	56	182	46	23	6300
007891	17	16	M16x16x125	93	15-50	65x165	39	128	30	17	2500
007892	17	18	M16x18x125	93	15-50	65x165	39	128	30	17	2500
007893	21	20	M20x20x160	111	20-65	75x189	43	146	33	19	3900
007894	21	22	M20x22x160	111	20-65	75x189	43	146	33	19	3900
007895	25	24	M24x24x200	126	20-75	85x213	49	164	39	21	5700
007896	25	28	M24x28x200	126	20-75	85x213	49	164	39	21	5700
007897	31	36	M30x36x250	143.5	20-85	95x238	56	182	46	23	8800

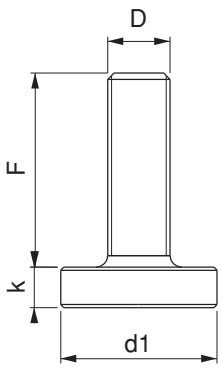




1270–Desteksiz Askı Pabuç

Sip. No	a	h min-max	DIN 787	b1	e	z	L	b	(g)
007898	12	0–45	M10 x 12 x 125	11	48	61	109	40	660
007899	14	0–45	M12 x 14 x 125	13	48	61	109	40	705
007900	16	0–55	M14 x 16 x 125	15	57	72	129	50	1190
007901	18	0–55	M16 x 18 x 125	17	57	72	129	50	1265

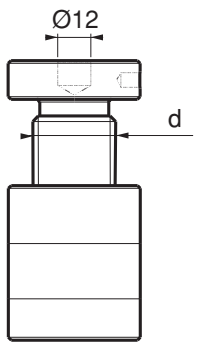




Sip. No	D x F	d1	k	(g)
007902	M8 x 32	25	8	40
007903	M10 x 42	30	8	60
007904	M12 x 50	36	10	110
007905	M12 x 95	36	10	150
007906	M16 x 62	45	13	240
007907	M16 x 97	45	13	285
007908	M16 x117	45	13	310
007909	M20 x 62	50	13	320
007910	M20 x 97	50	13	390
007911	M20 x 117	50	13	430
007912	M24 x 81	50	14	445
007913	M24 x 116	50	14	555
007914	M30 x 180	70	24	1650

1490–Pabuç Destek Civatası

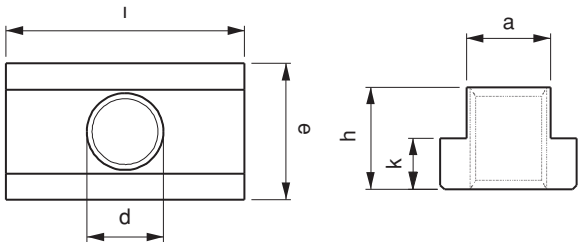




Sip. No		d			kgf	(g)
007915	23–30	M16	34	32	1000	140
007916	40–60	M16	34	32	1800	250
007917	42–52	Tr 30 x 4	50	50	6000	570
007918	50–70	Tr 30 x 4	50	50	6000	680
007919	70–100	Tr 30 x 4	50	50	6000	960
007920	100–140	Tr 30 x 4	50	50	6000	1395
007921	140–220	Tr 30 x 4	54	54	6000	2285
007922	210–330	Tr 30 x 6	58	58	8000	3950
007923	260–430	Tr 30 x 6	68	68	8000	7250

1510–Trapez Diş Yükseltici Destek

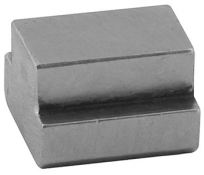


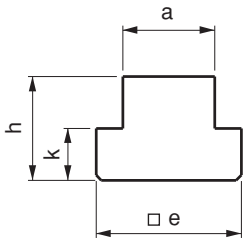


1710–Uzun T-Papuç

Sip. No	d x a	a	e	l	h	k	(g)
007924	M6 x 8	7.7	13	26	10	6	14
007925	M8 x 10	9.7	15	30	12	6	25
007926	M10 x 12	11.7	18	36	14	7	49
007927	M12 x 14	13.7	22	44	16	8	82
007928	M14 x 16	15.7	25	50	18	9	120
007929	M16 x 18	17.7	28	56	20	10	165

Sip. No	d x a	a	e	l	h	k	(g)
007930	M18 x 20	19.7	32	64	24	12	260
007931	M20 x 22	21.7	35	70	28	14	365
007932	M22 x 24	23.7	40	80	32	16	535
007933	M24 x 28	27.7	44	88	36	18	745
007934	M30 x 36	35.6	54	108	44	22	1390



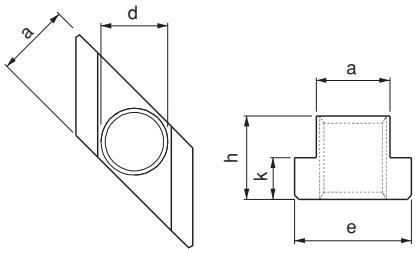


1730–Deliksiz T-Papuç

Sip. No	a	a	e	h	k	(g)
007935	6	5.7	10	8	4	4
007936	8	7.7	13	10	6	10
007937	10	9.7	15	12	6	16
007938	12	11.7	18	14	7	27
007939	14	13.7	22	16	8	50
007940	16	15.7	25	18	9	70
007941	18	17.7	28	20	10	95

Sip. No	a	a	e	h	k	(g)
007942	20	19.7	32	24	12	150
007943	22	21.7	35	28	14	210
007944	24	23.7	40	32	16	310
007945	28	27.7	44	36	18	430
007946	36	35.6	54	44	22	800
007947	42	41.6	65	52	26	1400



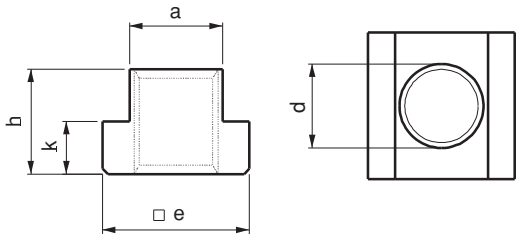


1770–Dereceli T–Pabuç

Sip. No	d x a	a	e	h	k	(g)
007948	M8 x 10	9.7	15	12	6	10
007949	M10 x 12	11.7	18	14	7	15
007950	M10 x 14*	13.7	22	16	8	30
007951	M12 x 14					25
007952	M14 x 16	15.7	25	18	9	40
007953	M10 x 18*	17.7	28	20	10	70

Sip. No	d x a	a	e	h	k	(g)
007954	M16 x 18	17.7	28	20	10	60
007955	M16 x 20*	19.7	32	24	12	95
007956	M18 x 20					90
007957	M16 x 22*	21.7	35	28	14	135
007958	M20 x 22					125



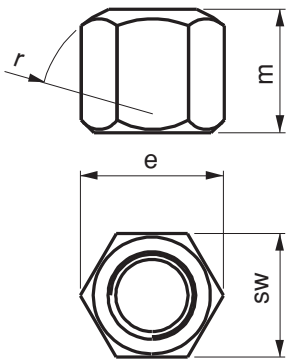


1750–T-Papuç

Sip. No	d x a	a	e	h	k	(g)
007959	M5 x 6	5.7	10	8	4	4
007960	M6 x 8	7.7	13	10	6	10
007961	M8 x 10	9.7	15	12	6	12
007962	M8 x 12* M10 x 12	11.7	18	14	7	22
007963						20
007964	M8 x 14* M10 x 14* M12 x 14	13.7	22	16	8	40
007965						37
007966						30
007967	M8 x 16* M10 x 16* M12 x 16* M14 x 16	15.7	25	18	9	60
007968						55
007969						55
007970						45
007971	M8 x 18* M10 x 18* M12 x 18* M14 x 18* M16 x 18	17.7	28	20	10	90
007972						87
007973						80
007974						75
007975						65

Sip. No	d x a	a	e	h	k	(g)
007976	M16 x 20* M18 x 20	19.7	32	24	12	115
007977						105
007978	M16 x 22* M18 x 22* M20 x 22	21.7	35	28	14	170
007979						160
007980						150
007981	M16 x 24* M20 x 24* M22 x 24	23.7	40	32	16	260
007982						240
007983						220
007984	M16 x 28* M20 x 28* M22 x 28 M24 x 28	27.7	44	36	18	375
007985						350
007986						330
007987						330
007988	M24 x 36* M30 x 36	35.6	54	44	22	665
007989						585
007990	M36 x 42	41.6	65	52	26	1025
007991	M42 x 48	47.6	75	60	30	1600

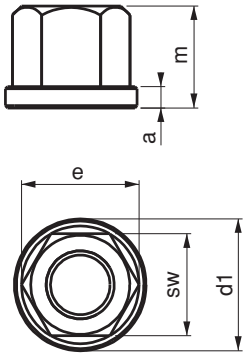




1790–Takviyeli Somun

Sip. No		sw	e	m	r	(g)
007992	M6	10	11.5	9	9	5
007993	M8	13	15	12	12	9
007994	M10	17	19.6	15	15	20
007995	M12	19	21.9	18	17	25
007996	M14	22	25.4	21	20	40
007997	M16	24	27.7	24	22	55
007998	M18	27	31.2	27	24	80
007999	M20	30	34.6	30	27	110
008000	M22	32	36.9	33	30	130
008001	M24	36	41.5	36	32	190
008002	M30	46	53.1	45	41	400
008003	M36	55	63.5	54	50	680
008004	M42	65	75	63	58	1150

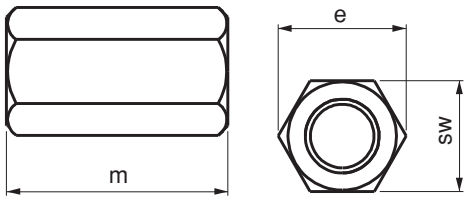




1810–Pullu Somun

Sip. No		sw	e	m	a	d1	(g)
008005	M8	13	14.7	12	3.5	18	12
008006	M10	17	19.2	15	4	22	25
008007	M12	19	21.5	18	4	25	30
008008	M14	22	24.9	21	4.5	28	50
008009	M16	24	27.2	24	5	31	65
008010	M18	27	30.6	27	5	34	90
008011	M20	30	34	30	6	37	130
008012	M22	32	36.3	33	6	40	155
008013	M24	36	40.8	36	6	45	220
008014	M30	46	52.3	45	8	58	465
008015	M36	55	62	54	10	68	500
008016	M42	65	75	63	12	80	1340





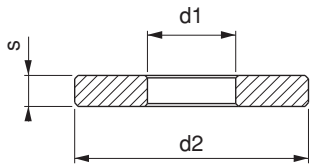
1830–Uzatma Somun

Sip. No		sw	e	m	(g)
008017	M6	10	11.7	18	8
008018	M8	13	15	24	19
008019	M10	17	19.6	30	45
008020	M12	19	21.6	36	55
008021	M14	22	25.4	42	90

Sip. No		sw	e	m	(g)
008022	M16	24	27.7	48	115
008023	M18	27	31.2	54	165
008024	M20	30	34.6	60	230
008025	M22	32	36.9	66	245
008026	M24	36	41.5	72	400

Sip. No		sw	e	m	(g)
008027	M30	46	53.1	90	840
008028	M36	55	63.5	108	1430
008029	M42	65	75	126	2330





1870–Pul

Sip. No	metrik	whitworth	d1	d2	s	(g)
008030	M6	1/4	6.4	17	3	6
008031	M8	5/16	8.4	23	4	10
008032	M10	3/8	10.5	28	4	16
008033	M12	1/2	13	35	5	30
008034	M14	-	15	40	5	40
008035	M16	5/8	17	45	6	60
008036	M18	-	19	45	6	60

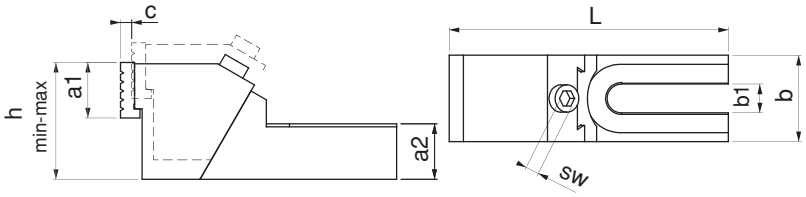
Sip. No	metrik	whitworth	d1	d2	s	(g)
008037	M20	3/4	21	50	6	70
008038	M22	7/8	23	50	8	90
008039	M24	7/8	25	60	8	145
008040	M30	11/8	31	68	10	215
008041	M36	11/4	38	80	12	360
008042	M42	11/2	44	98	15	640



Sip. No	a	(g)
008043	12-14	25
008044	16-18	45
008045	20-22	45
008046	24-28	70

1950–T-Kanal Temizleyici

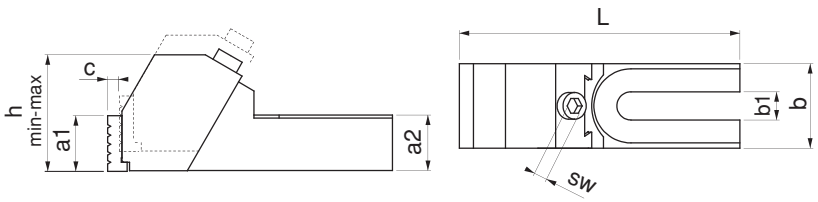




2095–Blok Yandan Bağlama

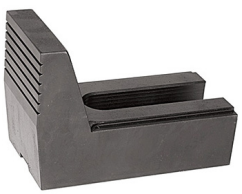
Sip. No	a	a1	a2	b	b1	c	h min–max	L	sw	F1 Sıkma Kuvveti	F2 Sıkma Kuvveti	(kg)
008047	14–16–18	37	37	57	19	8	78–98	185	10	2250 Kgf	350 Kgf	3.68
008048	20–22–24–28	37	45	76	26	11	98–118	240	14	3000 Kgf	450 Kgf	7.66

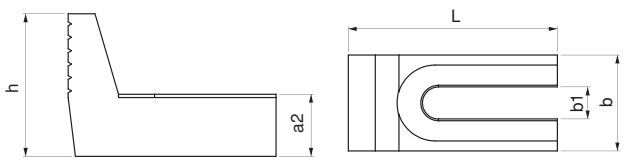




2095–Blok Yandan Bağlama

Sip. No	a	a1	a2	b	b1	c	h min–max	L	sw	F1 Sıkma Kuvveti	F2 Sıkma Kuvveti	(kg)
008049	14–16–18	37	37	57	19	8	78–98	185	10	2250	350	3.6
008050	20–22–24–28	37	45	76	26	11	98–118	240	14	3000	450	6.7

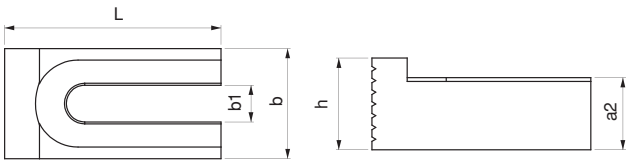




2098–Blok Yandan Bağlama Dayaması

Sip. No	a	a2	b	b1	h	L	(kg)
008051	14–16–18	37	57	19	85	124	2.025
008052	20–22–24–28	45	76	26	105	154	4.185

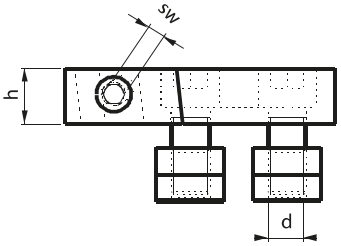


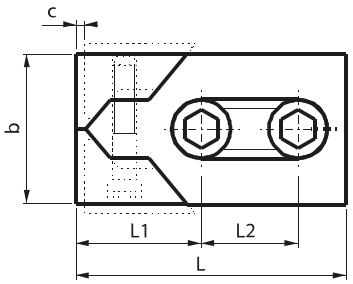


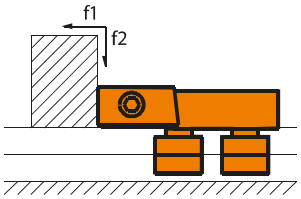
2098–Blok Yandan Bağlama Dayaması

Sip. No	a	a2	b	b1	h	L	(kg)
008053	14–16–18	37	57	19	47	112	2.800
008054	20–22–24–28	45	76	26	49	140	4.185





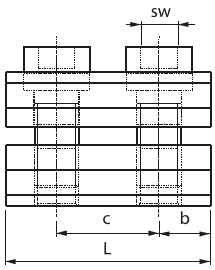


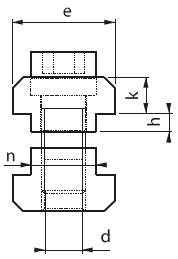


2110–Çift Çeneli Yandan Bağlama

Sip. No	a	c	h	b	L	L1	L2	sw	d	Sıkma Kuvveti Kgf		(g)
										f1	f2	
008055	12	3	20	40	80	39	26	6	M10	1600	60	415
008056	14									2200	90	425
008057	16	4	25	50	100	46	34	8	M14	3200	120	785
008058	18									3600	140	810
008059	20									3600	140	850
008060	22	5	28.5	78	140	65	50	10	M20	3600	140	2275
008061	24									3600	140	2360
008062	28									4000	160	2500



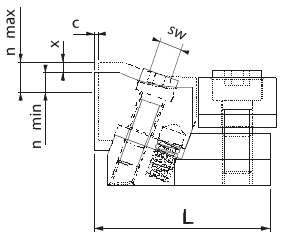


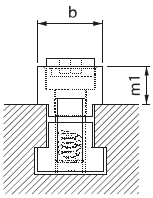


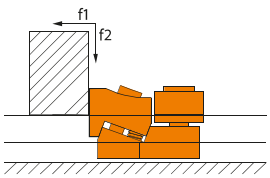
2130–Dayama

Sip. No	a	n	e	c	d	b	h	k	l	sw	(g)
008063	12	11.7	18	18	M8	9	3	7	36	6	100
008064	14	13.7	22	22	M8	11	4	8	44	6	180
008065	16	15.7	25	25	M12	12.5	5	9	50	10	270
008066	18	17.7	28	28	M12	14	5	10	56	10	355
008067	20	19.7	32	32	M16	16	5	12	64	14	570
008068	22	21.7	35	35	M16	17.5	6	14	70	14	770
008069	24	23.7	40	40	M20	20	6	16	80	17	1180
008070	28	27.7	44	44	M20	22	6	18	88	17	1560





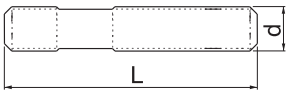




2170–Yandan Bağlama Pençe Pabuç

Sip. No	a	c	n		x	L	b	m1	sw	Sıkma Kuvveti kgf		(g)
			min	max						f1	f2	
008071	12	2	2	6	4	46	21	10	5	500	60	120
008072	14	2.5	2.5	7.5	5	51	26	10	6	550	70	200
008073	16	3	2.5	8.5	6	61	27.5	12	6	800	90	290
008074	18	3	2	8	6	67	35	13	10	900	100	420
008075	20	4	2.5	11	8.5	78	38	13	12	1200	140	640
008076	22	4.5	2.5	12	9.5	87	39	16.5	14	1600	190	830



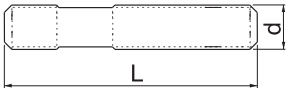


1990–Vidalı Yükselticili Bağlama Seti

- 6 adet DIN 508 T-Pabuç (M20x22'de 4 adet)
- 16 adet DIN 6379 saplama
- 6 adet DIN 6330B takviyeli somun
- 4 adet DIN 6331 pullu somun
- 2 adet Nr. 1830 uzatma somun
- 4 adet DIN 6340 kalın pul
- 4 adet Nr. 1330 destek delikli pabuç
- 8 adet Nr. 1510 vida dis yükseltici destek
- 1 adet Nr. 1950 T-Kanal temizleyici
- 1 adet statik boyalı çelik set
- Not: M20 VBS'de somun ve pul 4'er adet M10-12 VBS'de 1510 yükseltici 6 adet konulmaktadır.

Sip. No	d x a		(kg)	DIN 6379 d x L
008077	M10 x 12	265 x 255	6.44	M10 x 80–100–160–200
008078	M12 x 14	305 x 255	8.72	M12 x 80–100–160–200
008079	M14 x 16	435 x 255	12.98	M14 x 80–100–160–200
008080	M16 x 18	435 x 255	16.30	M16 x 80–100–160–200
008081	M18 x 20	495 x 255	17.82	M18 x 80–100–160–200
008082	M20 x 22	540 x 255	23.10	M20 x 100–125–160–200



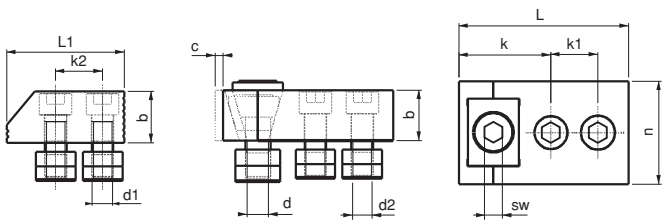


2010–Merdiven Yükselticili Bağlama Seti

- 6 adet DIN 508 T-Pabuç
- 16 adet DIN 6379 saplama
- 6 adet DIN 6330B takviyeli somun
- 4 adet DIN 6331 pullu somun
- 2 adet 1830 uzatma somun
- 4 adet DIN 6340 kalın pul
- 4 adet Nr.1290 merdiven pabuç
- 8 adet Nr. 1310 merdiven diş destek
- 1 adet Nr. 1950 T-Kanal temizleyici
- 1 adet statik boyalı çelik set

Sip. No	d x a		(kg)	DIN 6379 d x L
008083	M10 x 12	330 x 255	7.27	M10 x 80–100–160–200
008084	M12 x 14	380 x 255	9.26	M12 x 80–100–160–200
008085	M14 x 16	435 x 255	12.29	M14 x 80–100–160–200
008086	M16 x 18	435 x 255	15.62	M16 x 80–100–160–200
008087	M18 x 20	495 x 255	18.00	M18 x 80–100–160–200
008088	M20 x 22	540 x 255	23.10	M20 x 100–125–160–200

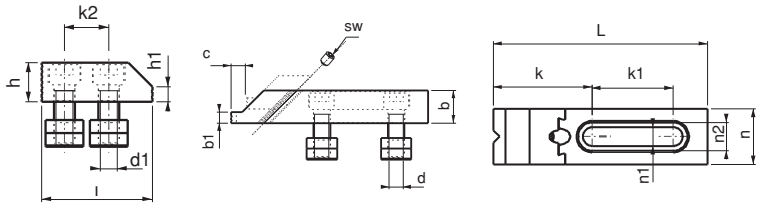




2030–Dereceli Yandan Bağlama Seti

Sip. No	a	c	L	b	n	k	k1	k2	L1	d	d1	d2	sw	Sıkma Kuvveti	Tork Değeri (N–m)	(g)
008089	14	5	90	23	47	47	26	26	65	M12	M12	M12	10	2000 Kgf	35	3490
008090	16															3670
008091	18	5	95	28	57	52	26	26	65	M12	M12	M12	10	2000 Kgf	35	5000
008092	20															5355
008093	22															5720
008094	24															6190
008095	28															6650

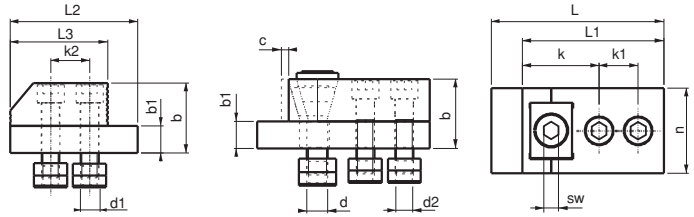




2070–Kızaklı Yandan Bağlama Seti

Sip. No	a	c	L	b	b1	n	n1	n2	k	k1	k2	sw	ı	h	h1	d	d1	Sıkma Kuvveti	Tork Değeri (N–m)	(g)
008096	14	10	142	24	8	37	12.5	18.5	65	54	26	6	65	23	10	M12	M12	850 Kgf	15	3575
008097	16																			3710
008098	18	14	145	28	10	48	12.5	18.5	74	56	26	8	65	28	11	M12	M12	1000 Kgf	35	5215
008099	20																			5400
008100	22																			5610

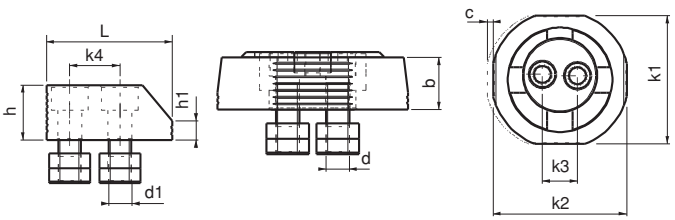




2050–Kızaklı Yandan Bağlama (Paralelli) Seti

Sip. No	a	c	L	L1	L2	L3	b	b1 ±0.01	n	k	k1	k2	d	d1	d2	sw	Sıkma Kuvveti	Tork Değeri (N–m)	(g)
008101	14	5	110	90	85	65	41	18	47	47	26	26	M12	M12	M12	6	1000 Kgf	15	5920
008102	16																		6210
008103	18	5	115	95	85	65	46	18	57	52	26	26	M12	M12	M12	8	1250 Kgf	20	8090
008104	20																		8440
008105	22																		8825
008106	24																		10080
008107	28																		10750



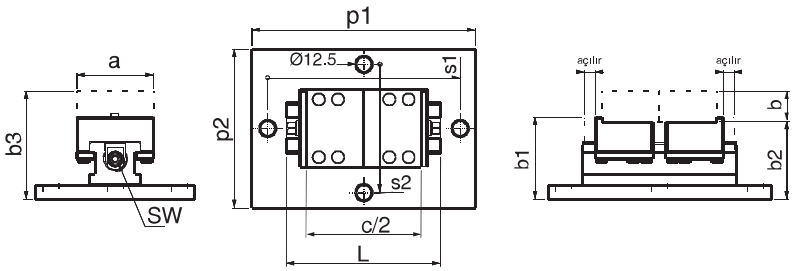


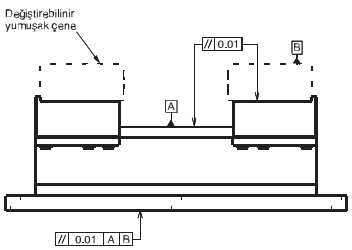
2090–Kollu Yandan Bağlama Seti

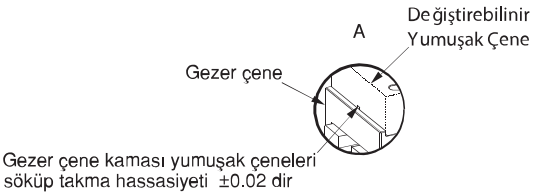
Sip. No	a	c	b	k1	k2	k3	k4	L	h	h1	d	d1	Sıkma Kuvveti	(g)
008108	14	3.5	30	95	99	26	26	65	28	10	M12	M12	3500	7925
008109	16													8490
008110	18													4610
008111	20													8850
008112	22													9030
008113	24													9490
008114	28													9800

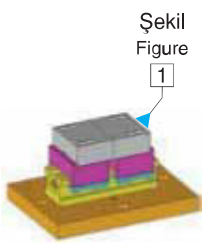


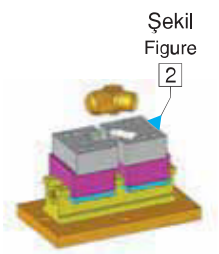
2310–Çift Açılır Çelik Mengene

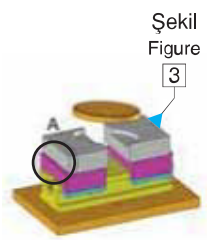


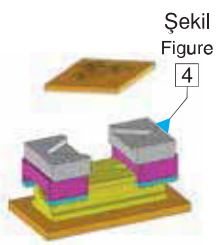


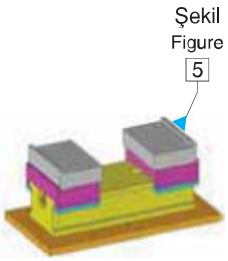


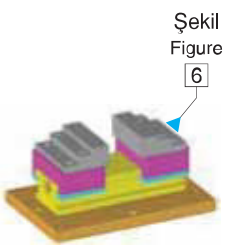




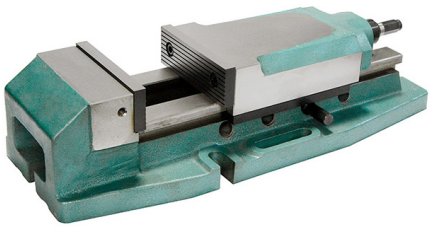


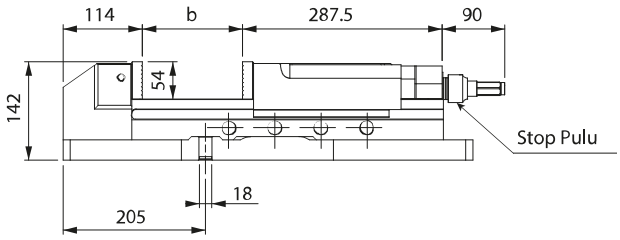




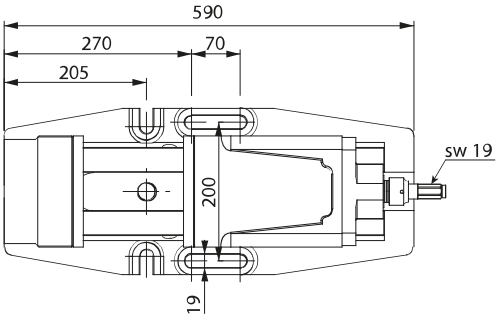


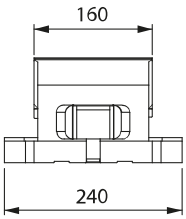
Sip. No	a	L	c/2	Açılır 2 x mm	İş Bağlama Kapasitesi	b	b1	b2 ±0,02	b3	p1	p2	s1	s2	Sıkma Kuvveti	sw	(kg)
008115	60	120	90	20	120 mm	23.5	70.5	67.5	91	174	124	150	100	1000 Kgf	9	7
008116	78	182	130	30	180 mm	33	97	93	126	224	124	200	100	1600 Kgf	12	14
008117	100	220	154	38	220 mm	35	99	95	130	274	174	250	150	1600 Kgf	12	22
008118	125	260	174	47	260 mm	38	108	103	141	324	174	300	150	2200 Kgf	14	335
008119	157	350	208	75	350 mm	46	123	118	164	424	224	400	200	2200 Kgf	17	65

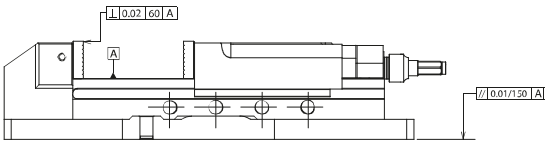


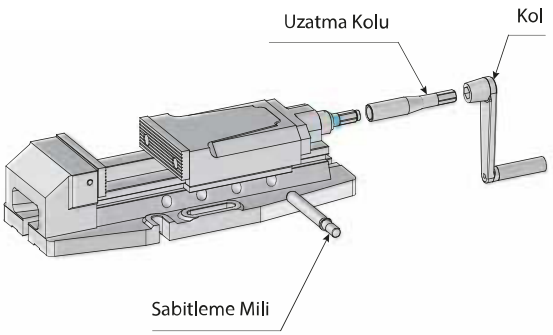


2320–Hidrolik Mengene

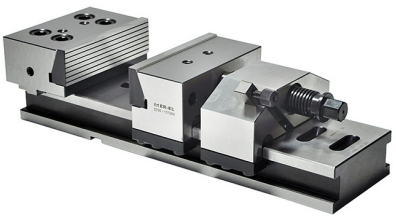


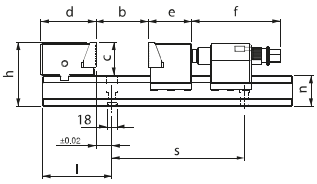


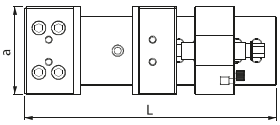


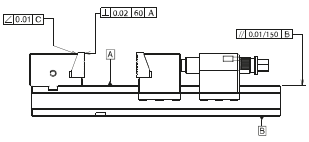


Sip. No	b	Sıkma Kuvveti	(kg)
008120	0–200	4500 Kgf	60



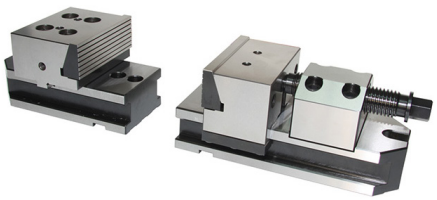


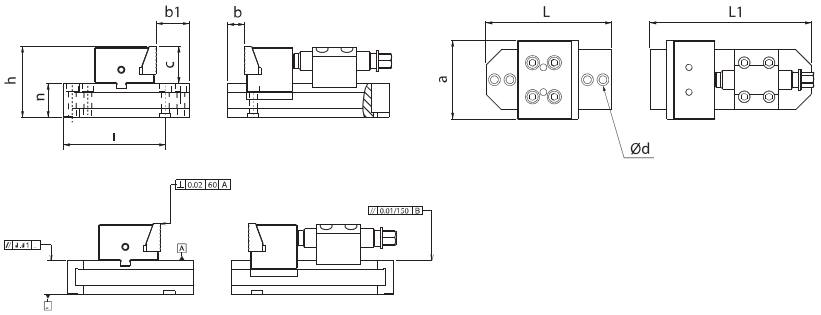




2330–Mekanik Çelik Mengene

Sip. No	a	b	c	L	d	e	f	h	ı	n	s	Sıkma Kuvveti	(kg)
008121	127	0–160	60	422	99	78	160	115	125	55	200	3500 Kgf	28
008122	157	0–200	60	462	99	78	160	115	150	55	200	4500 Kgf	46
008123	157	0–300	60	562	99	78	160	115	150	55	250	4500 Kgf	51
008124	197	0–300	60	562	99	78	160	115	150	55	250	4500 Kgf	66
008125	197	0–400	60	662	99	78	160	115	150	55	350	4500 Kgf	73
008126	197	0–500	60	762	99	78	160	115	150	55	250/250	4500 Kgf	80

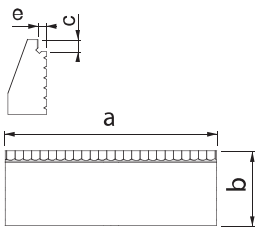




2345–Modüler Mekanik Çelik Mengene

Sip. No	a	L	L1	b1	b	c	h	ı	n	Ø d	Sıkma Kuvveti	(kg)
008127	127	202	260	53	0–58	60v	115	163.5	55	12.5	3500 Kgf	28

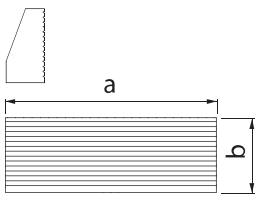




2333–Yedek Parça

Sip. No	a	b	c	d	e	f	(g)
008128	127	45	7	-	5	-	760
008129	157	45	7	-	5	-	935
008130	197	45	7	-	5	-	1180

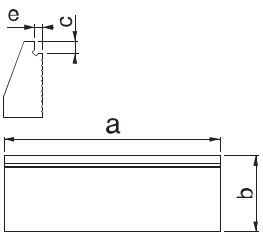




2334–Yedek Parça

Sip. No	a	b	c	d	e	f	(g)
008131	127	45	-	-	-	-	765
008132	157	45	-	-	-	-	960
008133	197	45	-	-	-	-	1185

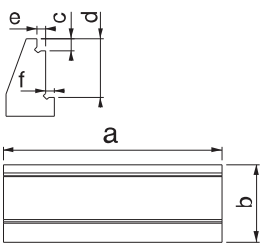




2335–Yedek Parça

Sip. No	a	b	c	d	e	f	(g)
008134	127	45	7	-	5	-	760
008135	157	45	7	-	5	-	935
008136	197	45	7	-	5	-	1180

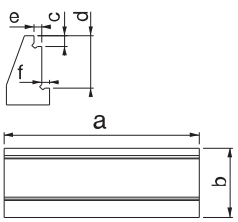




2340–Yedek Parça

Sip. No	a	b	c	d	e	f	(g)
008137	127	45	7	34	5	5	950
008138	157	45	7	34	5	5	1010
008139	197	45	7	34	5	5	1290

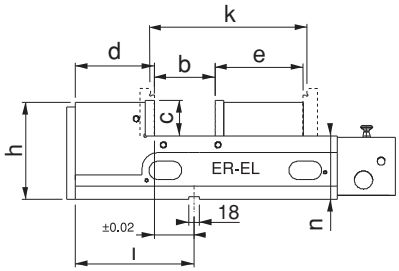


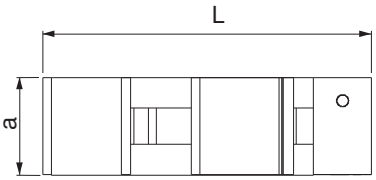


2340–Yedek Parça

Sip. No	a	b	c	d	e	f	(g)
008140	127	45	7	34	5	5	950
008141	157	45	7	34	5	5	1010
008142	197	45	7	34	5	5	1290



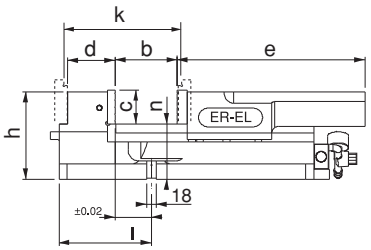


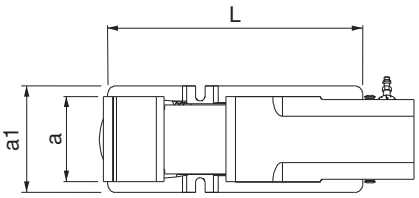


2350–Pnömatik Mengene

Sip. No	a	b	c	k	L	d	e	h	ı	n ±0/01	Sıkma Kuvveti	Hareket Mesafesi	(kg)
008143	160	160	58	310	530	130	145	160	190	105	2000 Kgf	4	62



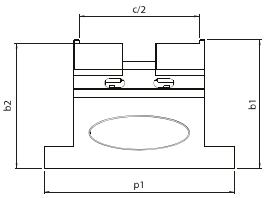


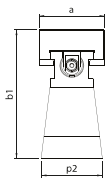


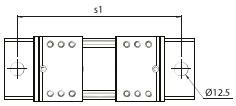
2370–Pnömatik Mengene

Sip. No	a	a1	b	c	k	L	d	e	h	ı	n ±0/01	Sıkma Kuvveti	Hareket Mesafesi	(kg)
008144	130	188	60	58	135	327	64	209	160	-	105	1100 Kgf	4	37
008145	130	185	140	63	225	400	69	300	160	173	105	2200 Kgf	4	44
008146	160	201	200	63	300	485	93	353	166	170	105	3300 Kgf	4	63
008147	200	240	250	63	360	530	93	410	166	185	105	4100 Kgf	4	81



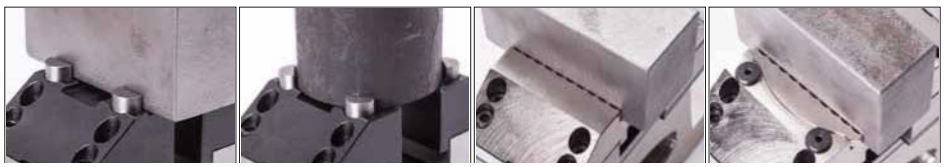


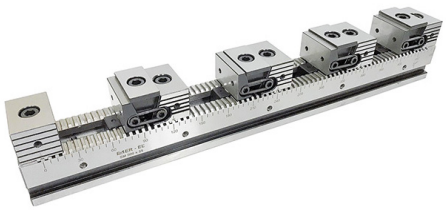


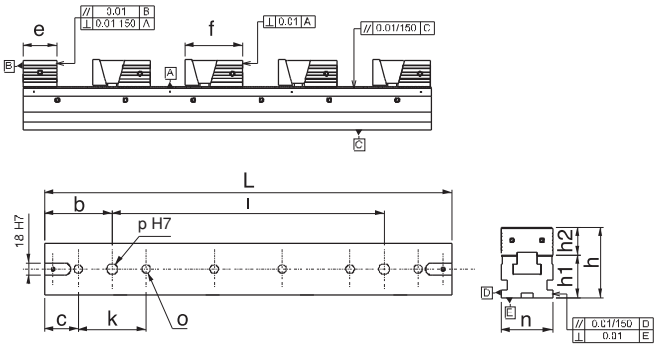


2315–Çift Açılır 5-Eksen Mengene

Sip. No	a	L	c/2	Açılır 2 x mm	b1	b2 ±0,02	p1	p2	s1	Sıkma Kuvveti	Tork Değeri (N-m)	SW
008148	60	120	90	20	117.5	114.5	174	56	150	800	45	9
008149	78	180	130	30	159	155	224	73.5	200	1500	110	12
008150	100	220	154	38	159	155	274	95	250	1500	110	12





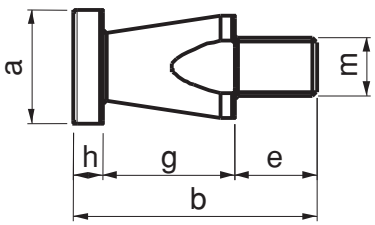


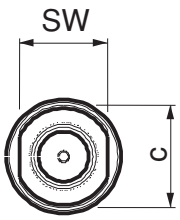
2430–Çok Çeneli Seri Mengene

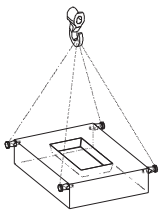
Sip. No	L	n	h1	h2	h	o	e	f	b	c	k	ı	p H7	Standart Bağlama Adedi	Sıkma Kuvveti	(kg)
008151	300	55	50	32	72	12.5	36	65	100	50	100	100	18	2	1750 Kgf	9
008152	500	55	50	32	72	12.5	36	65	100	50	100	300	18	4		15
008153	400	75	65	37	102	12.5	48	77	100	50	100	200	18	2	2000 Kgf	20
008154	600	75	65	37	102	12.5	48	77	100	50	100	400	18	4		33
008155	400	100	65	37	102	12.5	48	80	100	50	100	200	18	2	2500 Kgf	27
008156	600	100	65	37	102	12.5	48	80	100	50	100	400	18	3		41

1 İş parçası	2 İş parçası	3 İş parçası	4 İş parçası	5 İş parçası
196 mm	65 mm	22 mm	-	-
394 mm	165 mm	88 mm	50 mm	26 mm
268 mm	95 mm	38 mm	9 mm	-
472 mm	197 mm	106 mm	60 mm	32 mm
265 mm	93 mm	35 mm	-	-
469 mm	195 mm	103 mm	57 mm	30 mm





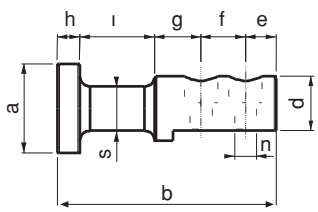


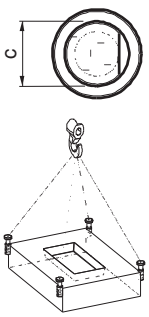


2730–Kalıp Taşıma Mapası

Sip. No	m	a	b	c	sw	e	g	h	Bir Mapanın Taşıma Kuvveti (Kgf)	(g)
008157	M16	39	85	35	30	30	45	10	660	370
008158	M20	39	85	35	30	30	45	10	1000	390



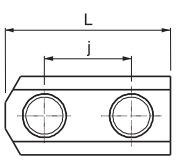


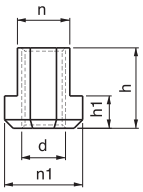


2750–Kalıp Taşıma Mapası

Sip. No	a	b	c	d	e	f	g	h	ı	n	s	1 Mapanın Taşıma Kuv.	(g)
008159	44	108	32	27	15	22	23	11	37	11	22	400 kgf	525







2790 -Yumuşak Ayak T–Pabucu

Sip. No	inch	L	h	n T6	n1	h1	d	j	(g)
008160	6''	38	18.5	12	18	7.5	M10	20	55
008161	8''	45	21.5	14	21	8.5	M12	25	85
008162	10''	52	21.5	16	22	8.5	M12	30	115
008163	12''	55	33.5	18	26.5	13.5	M14	30	225
008164	12''	55	27	21	29	13.5	M16	30	210



M10–Dik Bağlama Elemanı

Sip. No	F1 F2 (kN) ⇧ (kN)					g
008165	0.5	0.7	90	50	M4x25	50
008166	0.8	1.1	105	60	M5x30	114
008167	1.0	1.2	140	76	M6x35	178
008168	1.8	2.5	200	105	M8x45	400
008169	2.0	3.0	230	140	M8x65	630
008170	3.0	5.0	265	190	M12x80	1500
008171	3.5	5.5	300	230	M12x110	2160



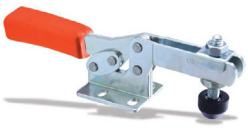
M11–Dik Bağlama Elemanı

Sip. No	F1 F2 (kN) ⇧ (kN)					g
008172	0.8	1.1	117	60	M5x30	114
008173	0.8	1.2	153	76	M6x35	178
008174	1.8	2.5	210	105	M8x45	400
008175	2.0	3.0	255	140	M8x65	630
008176	3.0	5.0	323	190	M12x80	1500



M12–Dik Bağlama Elemanı

Sip. No	F1 F2 (kN) ⇧ (kN)					g
008177	0.8	1.1	132	60	M5x30	125
008178	0.8	1.2	135	76	M6x35	220
008179	1.8	2.5	235	105	M8x45	470
008180	2.0	3.0	200	141	M8x65	650



M20–Yatay Bağlama Elemanı

Sip. No	F1 F2 (kN) ⇧ (kN)					g
008181	0.25	0.4	23	85	M4x25	37
008182	0.8	1.1	30	128	M5x30	112
008183	1.0	1.2	44	158	M6x35	182
008184	1.8	2.5	48	221	M8x45	340
008185	2.0	3.0	74	293	M8x65	700
008186	3.0	5.0	71	330	M12x80	1170



M21–Yatay Bağlama Elemanı

Sip. No	F1 F2 (kN) ⇧ (kN)					g
008187	0.25	0.4	32	85	M4x25	37
008188	0.8	1.1	42	128	M5x30	112
008189	1.0	1.2	59	158	M6x35	182
008190	1.8	2.5	63	221	M8x45	340
008191	2.0	3.0	96	293	M8x65	700
008192	3.0	5.0	93	330	M12x80	1170



M22–Yatay Bağlama Elemanı

Sip. No	F1 F2 (kN) ⇧ (kN)					g
008193	1.0	1.2	94	155	M6x35	250
008194	1.8	2.5	86	221	M8x45	400
008195	2.0	3.0	97	261	M8x65	750



M60–İtme Çekme Tipi Bağlama Elemanı

Sip. No	F1 F2 ⇨ ⇦ (kN) (kN)					g
008196	0.8	0.8	40	110	M4x20	80
008197	1.0	1.0	58	120	M4x20	120
008198	2.0	2.0	80	175	M6x25	270
008199	2.5	2.5	102	190	M8x35	450
008200	4.5	4.5	123	230	M12x50	880



M64–İtme Çekme Tipi Bağlama Elemanı

Sip. No	F1 F2 ⇨ ⇦ (kN) (kN)					g
008201	4.0	4.0	115	191	M8x35	630
008202	10.0	10.0	133	245	M12x50	1620
008203	25.0	25.0	170	333	M12x50	3610



M61–İtme Çekme Tipi Bağlama Elemanı

Sip. No	F1 F2 ⇨ ⇦ (kN) (kN)					g
008204	1.0	1.0	85	70	M6x35	130
008205	2.5	2.5	135	110	M8x35	320
008206	4.0	4.0	155	175	M12x50	1200



M46–Kancalı Bağlama Elemanı

Sip. No	⇦ (kN)	Ayar Aralığı (mm)			g
008207	2.0	5	33	130	100
008208	3.0	12	36	230	300
008209	5.0	12	70	310	850



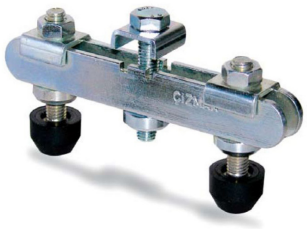
M40Y–Kancalı Bağlama Elemanı

Sip. No	⇦ (kN)	Ayar Aralığı (mm)			g
008210	2.0	117	60	M5x30	114
008211	3.0	153	76	M6x35	178
008212	5.0	210	105	M8x45	400



MS10/20–Mafsallı Baskı Civatası

Sip. No		h	L	g
008213	M4 x 25	18.5	31	7.70
008214	M5 x 30	22	38	13.80
008215	M6 x 35	25	43	19.80
008216	M8 x 45	29	57	44.20
008217	M8 x 65	47	77	63.30
008218	M12 x 80	56	97	165.40



MS10/30–Çapraz Kol

Sip. No				g
008219	M5 x 30	22–72	85	65
008220	M6 x 35	28–85	100	90
008221	M8 x 45	34–100	120	200
008222	M8 x 65	40–100	150	370
008223	M8 x 65	40–125	150	370



MS10/15–Koruyucu Lastik

Sip. No				g
008224	M4	11	8.5	1
008225	M5	12	9	1
008226	M6	15	11.5	2
008227	M8	19	14	4
008228	M10	24	17	6
008229	M12	25	20	8



P55–İtme Tipi Pnömatik Bağlama Elemanı

Sip. No	F1 F2 (kN) ⇧ (kN)		F3 ⇦ (kN)	Vn**				g
008230	4.0	2.5	0.75	0.8	85	320	M8x35	2000
008231	10.0	5.0	1.0	2.2	115	450	M12x50	3500
008232	25.0	-	1.0	4.5	150	533	M12x50	7680



P50–Dik Pnömatik Bağlama Elemanı

Sip. No	F1 F2 (kN) ⇧ (kN)		F1 F2 (kN) ⇩ (kN)		F5 ⇦ (kN)	Vn**				g
008233	1.0	1.2	0.7	1.0	0.30	0.26	170	130	M6x35	800
008234	1.4	2.5	0.6	1.1	0.50	0.35	205	160	M8x45	1100
008235	2.0	3.0	1.5	2.0	0.75	0.08	260	220	M8x65	1600



P52–Dik Pnömatik Bağlama Elemanı

Sip. No	F1 F2 (kN) ⇧ (kN)		F1 F2 (kN) ⇩ (kN)		F5 ⇦ (kN)	Vn**				g
008236	0.8	1.1	0.2	0.3	0.10	0.08	52	175	M5x30	610
008237	1.0	1.2	0.7	1.0	0.30	0.26	64	200	M6x35	870
008238	1.4	2.5	0.65	1.1	0.50	0.35	85	250	M8x45	1160
008239	2.0	3.0	1.5	2.2	0.75	0.80	100	290	M8x65	1900



AT-2212–Havalı Somun Sökme 1/2"

Sip. No	Soket Karesi	Uzunluk	Boşta Devir	Max.Tork	Hortum Ölçüsü
008240	1/2"	180 mm	8.000 RPM	1.486 NM	10 mm

Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
180 LT/DK	6,3-8,0 ATÜ	1/4"	2,60 Kg



OS-6234–Havalı Somun Sökme 3/4"

Sip. No	Civata Ölçüsü	Soket Karesi	Uzunluk	Boşta Devir	Max.Tork
008241	36 mm	3/4"	210 mm	5.500 RPM	1761 NM

Hortum Ölçüsü	Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
12 mm	220 LT/DK	6,3-8,0 ATÜ	3/8"	4,20 Kg



AT-6212–Havalı Somun Sökme 1/2"

Sip. No	Civata Ölçüsü	Soket Karesi	Uzunluk	Boşta Devir	Max.Tork
008242	19 mm	1/2"	180 mm	8.000 RPM	1.486 NM

Hortum Ölçüsü	Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
10 mm	120 LT/DK	6,3-8,0 ATÜ	1/4"	2,00 Kg



OS-2610–Havalı Somun Sökme 1"

Sip. No	Civata Ölçüsü	Soket Karesi	Uzunluk	Boşta Devir	Max.Tork
008243	32 mm	1"	210 mm	5.500 RPM	1761 NM

Hortum Ölçüsü	Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
12 mm	220 LT/DK	6,3-8,0 ATÜ	3/8"	5,00 Kg



AT-2712–Havalı Mini Somun Sökme 1/2"

Sip. No	Civata Ölçüsü	Soket Karesi	Uzunluk	Boşta Devir	Max.Tork
008244	16 mm	1/2"	110 mm	9.500 RPM	677 NM

Hortum Ölçüsü	Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
10 mm	80 LT/DK	6,3-8,0 ATÜ	1/4"	1.50 Kg



OS-6312–Havalı Somun Sökme 1/2"

Sip. No	Civata Ölçüsü	Soket Karesi	Uzunluk	Boşta Devir	Max.Tork
008245	19 mm	1/2"	187 mm	8000 RPM	1.486 NM

Hortum Ölçüsü	Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
10 mm	180 LT/DK	6,3-8,0 ATÜ	1/4"	2,00 Kg



OS-9313–Havalı Tornavida

Sip. No	Vida Ölçüsü	Soket Karesi	Uzunluk	Boşta Devir	Max.Tork
008246	4 mm	1/4"	235 mm	1.500 RPM	1-3 NM

Hortum Ölçüsü	Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
8 mm	120 LT/DK	6,3-8,0 ATÜ	1/4"	0,61 Kg



OS-842–Havalı Tornavida

Sip. No	Civata Ölçüsü	Soket Karesi	Uzunluk	Boşta Devir	Max.Tork
008247	6 mm	1/4"	235 mm	1.800 RPM	5-12 NM

Hortum Ölçüsü	Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
8 mm	140 LT/DK	6,3-8,0 ATÜ	1/4"	1,10 Kg



OS-843–Havalı Tornavida

Sip. No	Vida Ölçüsü	Soket Karesi	Uzunluk	Boşta Devir	Max.Tork
008248	8 mm	1/4"	226 mm	8000 RPM	5-15 NM

Hortum Ölçüsü	Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
8 mm	140 LT/DK	6,3-8,0 ATÜ	1/4"	1,20 Kg



AT-7033–Havalı Kalıpçı Taşlama

Sip. No	Pens Çapı	Uzunluk	Boşta Devir	Hortum Ölçüsü
008249	6 mm (3mm*)	170 mm	22.000 RPM	8 mm

Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
180 LT/DK	6,3-8,0 ATÜ	1/4"	0,70 Kg



OS-3312–Havalı Kalıpçı Taşlama

Sip. No	Vida Ölçüsü	Uzunluk	Boşta Devir	Hortum Ölçüsü
008250	6 mm (3mm*)	170 mm	22.000 RPM	8 mm

Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
180 LT/DK	6,3-8,0 ATÜ	1/4"	0,70 Kg



OS-8714–Havalı Kalıpçı Taşlama

Sip. No	Vida Ölçüsü	Uzunluk	Boşta Devir	Hortum Ölçüsü
008251	6 mm (3mm*)	151 mm	25.000 RPM	8 mm

Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
180 LT/DK	6,3-8,0 ATÜ	1/4"	0,70 Kg



OS-212 M–Havalı Açılı Kalıpçı Taşlama

Sip. No	Pens Çapı	Taş Çapı	Uzunluk	Hortum Uzunluğu	Boşta Devir
008252	3 mm	30 mm	140 mm	150 mm	22.000 RPM

Hortum Ölçüsü	Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
8 mm	120 LT/DK	6,3-8,0 ATÜ	1/4"	0,35 Kg



OS-8301-70–Havalı Mikro Kalıpçı Taşlama

Sip. No	Pens Çapı	Uzunluk	Boşta Devir	Hortum Ölçüsü
008253	3 mm	150 mm	70.000 RPM	8 mm

Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
60 LT/DK	6,3-8,0 ATÜ	1/4"	0,30 Kg



OS-8301-54–Mikro Kalıpçı Taşlama

Sip. No	Pens Çapı	Uzunluk	Boşta Devir	Hortum Ölçüsü
008254	3 mm	50 mm	54.000 RPM	8 mm

Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
120 LT/DK	6,3-8,0 ATÜ	1/4"	0,30 Kg



OS-3570–Havalı Mikro Kalıpçı Taşlama

Sip. No	Pens Çapı	Uzunluk	Boşta Devir	Hortum Ölçüsü
008255	3 mm	150 mm	70.000 RPM	8 mm

Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
60 LT/DK	6,3-8,0 ATÜ	1/4"	0,30 Kg



AT-3100 K–Havalı Mikro Kalıpçı Taşlama

Sip. No	Pens Çapı	Uzunluk	Boşta Devir	Hortum Ölçüsü
008256	0,5~5 mm	160 mm	35.000 RPM	8 mm

Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
120 LT/DK	6,3-8,0 ATÜ	1/4"	0,50 Kg



AT-010 K–Havalı Mikro Kalıpçı Taşlama

Sip. No	Pens Çapı	Uzunluk	Boşta Devir	Hortum Ölçüsü
008257	6 mm (3mm*)	151 mm	25.000 RPM	8 mm

Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
180 LT/DK	6,3-8,0 ATÜ	1/4"	0,70 Kg



FRL-600A–Şartlandırıcı 1/4"

Sip. No	Hava Girişi	Filtre	Çalışma Basıncı
008258	1/4"	10 Mikron	0-10 Bar

Çalışma Isısı Max.	Su Kapasitesi	Hava Geçirgenliği
60°C	150 ml.	2.080 Lt/dk



UFR/L-04–Şartlandırıcı 1/2"

Sip. No	Hava Girişi	Filtre	Çalışma Basıncı
008259	1/2"	10 Mikron	0-10 Bar

Çalışma Isısı Max.	Su Kapasitesi	Hava Geçirgenliği
60°C	150 ml.	2.600 Lt/dk



445...–Havalı Lokma 1/2"

Sip. No	S	D1	D2	L	L1
008260	8	15	24	38	12
008261	9	16	24	38	12
008262	10	17,5	24	38	12
008263	11	18,5	24	38	12
008264	12	19,5	24	38	12
008265	13	20,5	24	38	14
008266	14	22	24	38	14
008267	15	24	24	38	14
008268	16	24	24	38	15
008269	17	26	26	38	15
008270	18	28	26	38	15
008271	19	28	28	38	15

Sip. No	S	D1	D2	L	L1
008272	20	30	30	38	15
008273	21	30	30	38	15
008274	22	32	30	38	16
008275	23	34	30	38	15
008276	24	34	30	38	16
008277	25	36	30	38	16
008278	26	36	30	38	15
008279	27	38	30	42	18
008280	28	40	30	42	18
008281	29	42	30	42	18
008282	30	42	30	42	18
008283	32	44	30	44	19



2440...–Havalı Allen Lokma 1/2"

Sip. No	S	D	L
008284	4	25	100
008285	5	25	100
008286	6	25	100
008287	8	25	100
008288	10	25	100
008289	12	25	100
008290	14	25	100
008291	17	25	100
008292	19	25	100



2440...–Havalı Uzun Allen Lokma 1/2"

Sip. No	S	D	L
008293	4	25	100
008294	5	25	100
008295	6	25	100
008296	8	25	100
008297	10	25	100
008298	12	25	100
008299	14	25	100
008300	17	25	100
008301	19	25	100



AT-7033-K
Havalı Kalıpçı Taşlama Set

Set İçeriği: 10 Adet Saplı Taş
3mm Pens-Rekor 1/4

Sip. No	Pens Çapı	Uzunluk	Boşta Devir	Hortum Ölçüsü
008302	6 mm (3mm*)	170 mm	22.000 RPM	8 mm

Hava Tüketimi	Çalışma Basıncı	Hava Giriş Nipeli	Ağırlık
180 LT/DK	6,3-8,0 ATÜ	1/4"	0,70 Kg



G6851–Şarjlı Led Lamba

Sip. No	Led	Pil	Işık Çıkışı		
			Yan Işık Max	Yan Işık Min.	Tepe Işık Max.
008303	2W COB + 1W TOSHIBA SMD	.7 V 750 mAh 14500 Li-ion	110 Lümen	30 Lümen	60 Lümen

Işık Mesafesi			Çalışma Süresi		
Yan Işık Max	Yan Işık Min.	Tepe Işık Max.	Yan Işık Max	Yan Işık Min.	Tepe Işık Max.
13 mt	8 mt	35 mt	2 saat	6,5 saat	3,5 saat

Suya Dayanıklılık	Darbeye Dayanıklılık	Şarj Süresi (Yaklaşık)	Mıknatıs	Uzunluk	Genişlik
IPX0	1,5 m	2 saat 5V/1Asarj aleti	Var	153 mm	28 mm.



G6814–Şarjlı Led Lamba

Sip. No	Led	Pil	Işık Çıkışı		
			Yan Işık Max	Yan Işık Min.	Tepe Işık Max.
008304	5W COB + 1W SMD 3030	3.7 V 4400 mAh Li-ion	420 Lüme	120 Lüme	45 Lüme

Işık Mesafesi			Çalışma Süresi		
Yan Işık Max	Yan Işık Min.	Tepe Işık Max.	Yan Işık Max	Yan Işık Min.	Tepe Işık Max.
14 mt.	35 mt	35 mt	3 saat	10 saat	25 saat

Suya Dayanıklılık	Darbeye Dayanıklılık	Şarj Süresi (Yaklaşık)	Mıknatıs	Uzunluk	Genişlik
IPX0	1,5 m	4,5 saat 5V/2A sarj aleti	Var	217 mm.	55 mm.



G6846–Şarjlı Led Lamba

Sip. No	Led	Pil	Işık Çıkışı		
			Yan Işık Max	Yan Işık Min.	Tepe Işık Max.
008305	10W SMD LED +6000-6500 K 1W SMD LED +6000-6500 K	3.7 V 4400 mAh	420 Lümen	120 Lümen	40 Lümen

Işık Mesafesi			Çalışma Süresi		
Yan Işık Max	Yan Işık Min.	Tepe Işık Max.	Yan Işık Max	Yan Işık Min.	Tepe Işık Max.
-	-	-	3 saat	8 saat	35 saat

Suya Dayanıklılık	Darbeye Dayanıklılık	Şarj Süresi (Yaklaşık)	Mıknatıs	Uzunluk	Genişlik
IPX4	1,5 m	4 saat 5V/1A sarj aleti	Var	190 mm.	58 mm



G6847–Şarjlı Led Lamba

Sip. No	Led	Pil	Işık Çıkışı		
			Yan Işık Max	Yan Işık Min.	Tepe Işık Max.
008306	5W COB + 1W SMD 3030	3.7 V 4400 mAh Li-ion	240 Lümen	70 Lümen	45 Lüme

Işık Mesafesi			Çalışma Süresi		
Yan Işık Max	Yan Işık Min.	Tepe Işık Max.	Yan Işık Max	Yan Işık Min.	Tepe Işık Max.
20 mt.	10 mt.	24 mt.	3 saat	10 saat	13 saat

Suya Dayanıklılık	Darbeye Dayanıklılık	Şarj Süresi (Yaklaşık)	Mıknatıs	Uzunluk	Genişlik
IP54	1,5 m	4,5 saat 5V/2A sarj aleti	Var	162 mm.	50 mm.

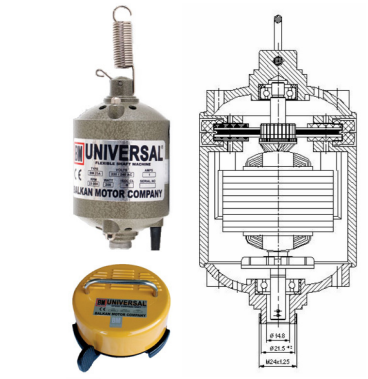


G6848–Şarjlı Led Lamba

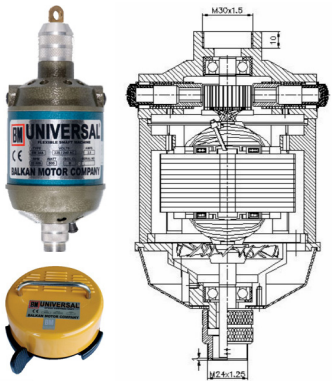
Sip. No	Led	Pil	Işık Çıkışı		
			Yan Işık Max	Yan Işık Min.	Tepe Işık Max.
008307	5W SMD LED +6000-6500 K 1W SMD LED +6000-6500 K	3.7 V 1000 mAh Polimer Batarya	110 Lümen	30 Lümen	40 Lümen

Işık Mesafesi			Çalışma Süresi		
Yan Işık Max	Yan Işık Min.	Tepe Işık Max.	Yan Işık Max	Yan Işık Min.	Tepe Işık Max.
-	-	-	2.5 saat	8 saat	4,5 saat

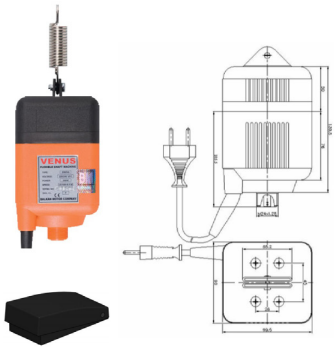
Suya Dayanıklılık	Darbeye Dayanıklılık	Şarj Süresi (Yaklaşık)	Mıknatıs	Uzunluk	Genişlik
IPX4	1,5 m	2 saat 5V/1A sarj aleti	Var	118 mm.	48 mm



BM 23A Spiral Motor



BM 24A Spiral Motor



BM 25A Spiral Motor

Sip. No	Tip	Test Volt. (V)	Test Frek. (Hz)	Yüksüz Halde		Maximum Verim Şartlarında							Maximum Güç Şartlarında				
				Devir (Rpm)	Akım (Amp)	Moment (Ncm)	Akım (Amp)	Moment (Ncm)	Devir (Rpm)	Akım (Amp)	Verim (%)	Çıkış Gücü (W)	Moment (Ncm)	Devir (Rpm)	Akım (Amp)	Verim (%)	Çıkış Gücü (W)
008308	BM23A	220	50	17927	0.473	43.59	2.078	13.4	8547	1.071	56.07	119.97	26.5	5118	1.625	46.28	142.05
008309	BM24A	220	50	16985	0.961	93.48	6.608	26.19	9978	2.904	53.55	273.72	53.36	6181	4.753	46.04	345.43
008310	BM25A	220	50	15817	0.729	83.77	4.498	23.6	8885	1.913	60.56	219.56	48.76	5468	3.125	51.41	279.22



Motor Askısı Mengeneli Tip

Açıklama

- Ayarlanabilir yükseklik.
- Güçlendirilmiş bağlantıları sayesinde yerinden oynamaz.
- Spiral Kolların uzun ömürlü olması için kullanılması gereklidir.
- Spiral motorların kullanıldığı tüm çalışma ortamlarında güvenle kullanılır.

Sip. No
008311



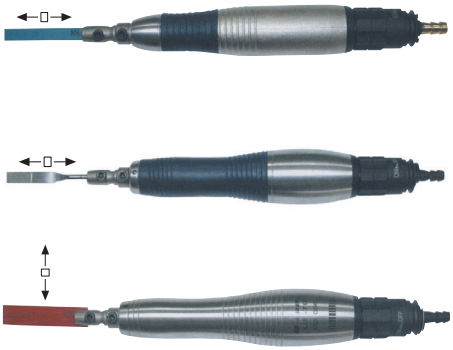
Mandrenli Spiral Kol

Açıklama

300 W, 400W ve 5000W gücünde sipiral motorlar için 15000–25000' e kadar yüksek devirde kullanıma uygun olarak tasarlanmıştır.
Ağır çalışma şartlarından etkilenmez metal kaplama dış yüzey ve içerisine yerleştirilmiş paslanmaz çelik tel sayesinde dayanıklılığı, kullanım ömrü artırılmıştır. Universal spiral kol kuyumculuk, dişçilik, kalıp parlatma ve diğer uygulamalarda güvenle kullanılır. Yüksek kalitede malzemeler kullanılarak üretilen bu kol, motorlardan alınan gücü esnek bir biçimde, sessiz ve titreşimsiz olarak piyasemenlere iletir.

Özellik : 0 – 4 mm arası madrenli
Şaft Çapı : Ø5 mm
Rulmanlar : 1X624ZZ, 1X607ZZ, 1X699ZZ
Uzunluk : 1,010 mm
Motor ve Piyasemen Bağlantısı : Universal
Dönüş Yönü : CCW – Saat yönünün Tersine
Büküm Radyosu Min. : R100 mm

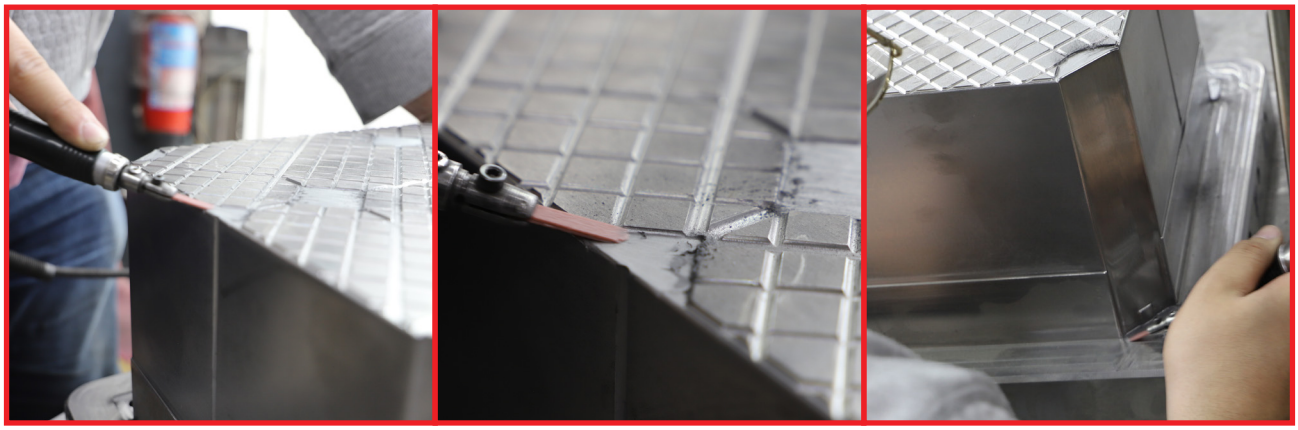
Sip. No
008312



Havalı Diprofiller

Erezyonlu ve Tel Erezyonda sertleşmiş yüzeyleri kolayca aşındırır el ile parlatma için ulaşılması zor olan yüzeylerde kolayca çalışmayı sağlar.

Sip. No	Ürün Kodu	Strok	Hız d / dk	Hava Basıncı	Ebat	Ağırlık
008313	AR–030	0.3 mm ileri–geri	40.000	2–6 Bar	28 x 200	200 gr.
008314	AR–050	0.5 mm ileri–geri	45.000	2–6 Bar	23 x 185	220 gr.
008315	AR–070	0.7 mm ileri–geri	35.000	2–6 Bar	28 x 200	200 gr.
008316	AR–300	0.3 mm ileri–geri	10.000	2–6 Bar	23 x 200	250 gr.
008317	SAR–070	0.7 mm sag–sol	15.000	2–6 Bar	18 x 180	250 gr.

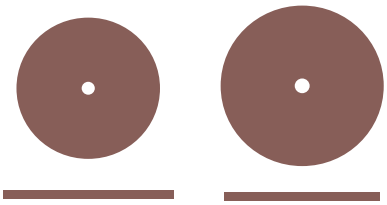




Havalı Spiraller

Kaynaklı yüzeylerde, kanallarda finiş yüzeylerde genel amaçlı kullanılmaktadır.

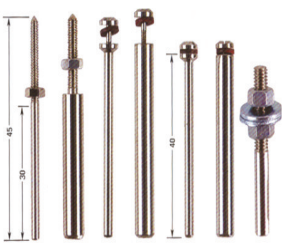
Sip. No	Ürün Kodu	Pens	Devir	Hava Basıncı	Ebat	Ağırlık
008318	UG–300	3–6 mm	35.000	2–6 Bar	22 x 182	170 gr.
008319	UG–400	2.35–3 mm	60.000	2–6 Bar	17 x 159	130 gr.
008320	UG–500	2.35–3 mm	60.000	2–6 Bar	20 x 160	110 gr.



Ø 20 x 0.70 mm

Ø 40 x 1.00 mm

Separe Kesme Taşları



Sip. No	Açıklama
008321	2.35 mm disli somunlu baglama aparatı / kısa
008322	3 mm disli somunlu baglama aparatı / kalın disli
008323	2.35 mm kademesiz ince kafalı baglama aparatı
008324	3 mm düz baglama aparatı
008325	3 mm disli kademesiz baglama aparatı
008326	6 mm baglama aparatı
008327	6 mm pullu baglama aparatı / kısa

Silindir Parlatma Lastikleri Ø 6.35 x 25 mm



Değersiz alaşımlar ve değerli metal dökümlerin düzeltilmesi için.

Sip. No
008328



Altın ve değersiz metal yüzeylerinin matlaştırılması için

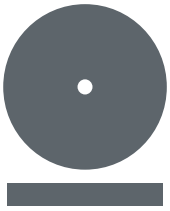
Sip. No
008329



Altın ve değersiz metal yüzeylerinin yüksek parlaklıkta parlatılması için

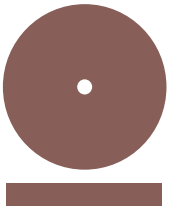
Sip. No
008330

Daire Parlatma Lastikleri Ø 22 x 3.00 mm



Değersiz alaşımlar ve değerli metal dökümlerin düzeltilmesi için

Sip. No
008331



Altın ve değersiz metal yüzeylerinin matlaştırılması için

Sip. No
008332



Altın ve değersiz metal yüzeylerinin yüksek parlaklıkta parlatılması için

Sip. No
008333

Saplı Parlatma Lastikleri Ø 6.35 x 25 mm



Değersiz alaşımlar ve değerli metal dökümlerin düzeltilmesi için

Sip. No
008334



Altın ve değersiz metal yüzeylerinin matlaştırılması için

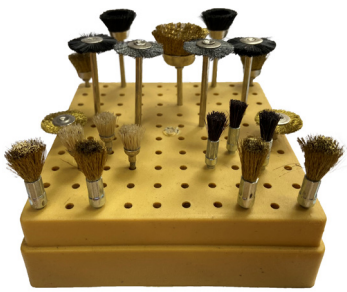
Sip. No
008335



Altın ve değersiz metal yüzeylerinin yüksek parlaklıkta parlatılması için

Sip. No
008336

Tesviye ve Parlatma Fırçaları



Sip. No	Ölçü	Şaft	Tip
008337	Ø 25 Disk	3	Metal–Kıl
008338	Ø 30 Disk	3	Metal–Kıl
008339	8 x 10 Konik	3	Metal–Kıl
008340	16 x 8 Konik	3	Metal–Kıl
008341	Ø 6 Silindir	3	Metal–Kıl



Gaz Taşları

Sip. No	Ölçü		Kum
008342			120
008343			180
008344			220
008345			320
008346		3 x 6	400
008347			600
008348			800
008349			1000
008350			1200
008351			120
008352			180
008353			220
008354			320
008355		3 x 13	400
008356			600
008357			800
008358			1000
008359			1200
008360			120
008361			180
008362			220
008363			320
008364		6 x 13	400
008365			600
008366			800
008367			1000
008368			1200
008369			120
008370			180
008371			220
008372			320
008373		6 x 25	400
008374			600
008375			800
008376			1000
008377			1200
008378			120
008379			180
008380			220
008381			320
008382		4 x 4	400
008383			600
008384			800
008385			1000
008386			1200

Sip. No	Ölçü		Kum
008387			120
008388			180
008389			220
008390			320
008391		6 x 6	400
008392			600
008393			800
008394			1000
008395			1200
008396			120
008397			180
008398			220
008399			320
008400		10 x 10	400
008401			600
008402			800
008403			1000
008404			1200
008405			120
008406			180
008407			220
008408			320
008409		U–6	400
008410			600
008411			800
008412			1000
008413			1200
008414			120
008415			180
008416			220
008417			320
008418		U–10	400
008419			600
008420			800
008421			1000
008422			1200
008423			120
008424			180
008425			220
008426			320
008427		Y–6	400
008428			600
008429			800
008430			1000
008431			1200



Seramik Gaz Taşları

Sip. No	Ölçü	Kum
008432	1 x 4 x 100	180
008433		250
008434		280
008435		400
008436		600
008437		800
008438		1000
008439		1200
008440	1 x 6 x 100	180
008441		250
008442		280
008443		400
008444		600
008445		800
008446		1000
008447		1200

Sip. No	Ölçü	Kum
008448	1 x 10 x 100	180
008449		250
008450		280
008451		400
008452		600
008453		800
008454		1000
008455		1200
008456	Ø 3 x 100	180
008457		250
008458		280
008459		400
008460		600
008461		800
008462		1000
008463		1200



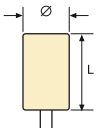
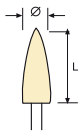


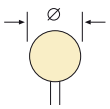
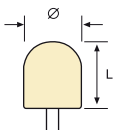
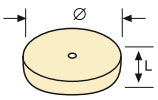
Elmas Parlatma Macunu & Macun Nemlendirici

Sip. No	Mikron	Elmas Yoğunluğu	Kullanım Alanı
008464	0–1	14000	Son Parlatma
008465	2–1	8000	Son Parlatma
008466	3–2	3000	Ön Parlatma ve Lepleme
008467	5–3	1800	Ön Parlatma ve Lepleme
008468	5–7	1200	Ön Parlatma ve Lepleme
008469	7–10	800	Talas Kaldırma
008470	14–20	325	Talas Kaldırma
008471	20–28	230	Talas Kaldırma
008472	40–60	170	Talas Kaldırma
008473	Elmas Macun Nemlendirici		



Parlatma Keçeleri

Sip. No	Tip	Ölçü (Ø x L)	Şaft
008474		4 x 8	3
008475		5 x 9	
008476		6 x 10	
008477		8 x 10	
008478		10 x 14	
008479		12 x 20	
008480		15 x 20	
008481		20 x 20	
008482		25 x 30	
008483		30 x 30	
008484		5 x 12	3
008485		6 x 16	
008486		8 x 16	
008487		10 x 14	
008488		12 x 20	
008489		20 x 30	

Sip. No	Tip	Ölçü (Ø x L)	Şaft
008490		4	3
008491		6	
008492		8	
008493		10	
008494		12	
008495		20	
008496		6 x 10	3
008497		8 x 16	
008498		10 x 14	
008499		12 x 20	
008500		20 x 30	
008501		22 x 5	3
008502		25 x 5	
008503		30 x 5	
008504		40 x 5	



Bez Zımpara

Sip. No	Kum	En
008505	60	200 mm
008506	80	200 mm
008507	100	200 mm
008508	120	200 mm
008509	150	200 mm
008510	180	200 mm
008511	220	200 mm
008512	280	200 mm
008513	320	200 mm
008514	400	200 mm
008515	600	200 mm
008516	800	200 mm



Plaka Su Zımparası

Sip. No	Kum
008517	60
008518	80
008519	100
008520	120
008521	150
008522	180
008523	220
008524	280

Sip. No	Kum
008525	320
008526	400
008527	600
008528	800
008529	1000
008530	1200
008531	1500
008532	2000





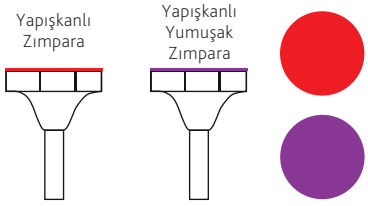
Spiro Bant Zımpara & Tutucusu

Sip. No	Tutucu Çap
008533	Ø 4
008534	Ø 5
008535	Ø 6
008536	Ø 8
008537	Ø 10
008538	Ø 12
008539	Ø 15
008540	Ø 20
008541	Ø 25
008542	Ø 30
008543	Ø 40
008544	Ø 50

Sip. No	Ölçü	Kum
008545	4 x 10	120
008546		220
008547		320
008548		400
008549		600
008550	5 x 12	120
008551		220
008552		320
008553		400
008554		600

Sip. No	Ölçü	Kum
008555	6 x 12	120
008556		220
008557		320
008558		400
008559		600
008560	8 x 12	120
008561		220
008562		320
008563		400
008564		600
008565	10 x 12	120
008566		220
008567		320
008568		400
008569		600
008570	12 x 30	60
008571		80
008572		100
008573		120
008574		220
008575	15 x 30	60
008576		80
008577		100
008578		120
008579		220

Sip. No	Ölçü	Kum
008580	20 x 30	60
008581		80
008582		100
008583		120
008584		220
008585	25 x 30	60
008586		80
008587		100
008588		120
008589		220
008590	30 x 30	60
008591		80
008592		100
008593		120
008594		220
008595	40 x 30	60
008596		80
008597		100
008598		120
008599		220
008600	50 x 30	60
008601		80
008602		100
008603		120
008604		220

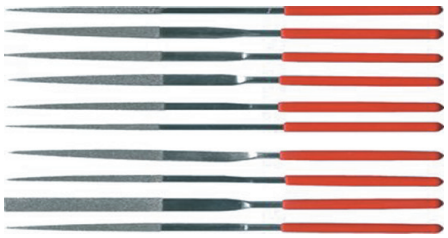


Saplı Elastik Lastik

Sip. No	Lastik	Kum	Zımpara
008605	10	80	12
008606			20
008607			33
008608			50
008609		150	12
008610			20
008611			33
008612			50
008613	18	80	12
008614			20
008615			33
008616			50
008617		150	12
008618			20
008619			33
008620			50

Sip. No	Lastik	Kum	Zımpara
008621	30	80	12
008622			20
008623			33
008624			50
008625		150	12
008626			20
008627			33
008628			50
008629	45	80	12
008630			20
008631			33
008632			50
008633		150	12
008634			20
008635			33
008636			50

ELMAS EĞELER



PF–10'lu Elmas Eğe Seti

Sip. No	Ürün Kodu	Form	Boy	Elmas Boyu	Kalınlık	Genişlik	Kum
008637	PF–101		140	50	1.5	6	120
008638	PF–102		140	50	2	5	120
008639	PF–103		140	50	3	Ø	120
008640	PF–104		140	50	2.5	2.5	120
008641	PF–105		140	50	3.5	3.5	120
008642	PF–106		140	50	1.5	5.4	120
008643	PF–107		140	50	6	1.7	120
008644	PF–108		140	50	2	6	120
008645	PF–109		140	50	2	5	120
008646	PF–110		140	50	1.5	6	120
008647	PF–10	PVC AMBALAJLI 10'LU PAKET					



PTF–10'lu Elmas Eğe Seti

Sip. No	Form	Boy	Elmas Boyu	Kum
008648	2 / 0.4 - 1.7	130	30	200
				400
				600
	4 / 0.4 - 1.7	130	30	200
				400
				600
	6 / 0.4 - 1.7	130	30	200
				400
				600
		140	50	600



PF–5'li Elmas Eğe Seti

Sip. No	Ürün Kodu	Form	Boy	Elmas Boyu	Kalınlık	Genişlik	Kum
008649	PF–101		140	50	1.5	6	120
008650	PF–102		140	50	2	5	120
008651	PF–103		140	50	3	Ø	120
008652	PF–104		140	50	2.5	2.5	120
008653	PF–105		140	50	3.5	3.5	120
008654	PF–5	PVC AMBALAJLI 5'Lİ PAKET					



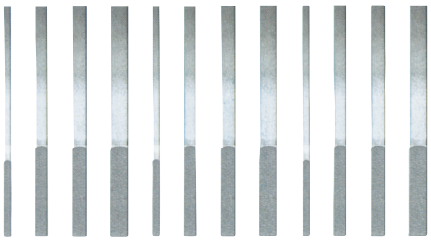
BF90–10'lu Elmas Eğe Seti

Sip. No	Ürün Kodu	Boy	Elmas Boyu	Kalınlık	Genişlik	Kum
008655	BF–901	140	20	1.3	6	150
008656	BF–902	140	20	2.5	2.5	150
008657	BF–903	140	20	1.5	3.5	150
008658	BF–904	140	20	3.5	3.5	150
008659	BF–905	140	20	2	5	150
008660	BF–906	140	20	1.5	3.5	150
008661	BF–907	140	20	2	3.5	150
008662	BF–908	140	20	3	Ø	150
008663	BF–909	140	20	5	1.5	150
008664	BF–910	140	20	2.3	Ø	150
008665	BF–90	PVC AMBALAJLI 10'LU PAKET				



BF60–5'li Elmas Eğe Seti

Sip. No	Ürün Kodu	Form	Boy	Elmas Boyu	Kalınlık	Genişlik	Kum
008666	BF–601		140	30	1.3	6	150
008667	BF–602		140	30	2	5	150
008668	BF–603		140	30	3	Ø	150
008669	BF–604		140	30	2.5	2.5	150
008670	BF–605		140	30	5.5	3.5	150
008671	BF–60	PVC AMBALAJLI 10'LU PAKET					



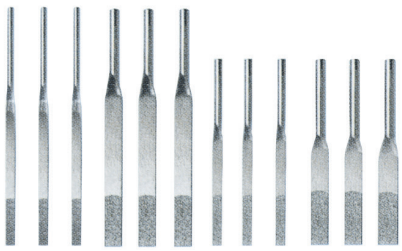
CF–12'li Elmas Eğe Seti

Sip. No	Ürün Kodu	Form	Boy	Elmas Boyu	Kum
008672	CF–402J	2 / 0.4 - 1.5	180	40	150
008673	CF–402F				200
008674	CF–402V				400
008675	CF–404J	4 / 0.5 - 2.0	180	50	150
008676	CF–404F				200
008677	CF–404V				400
008678	CF–406J	6 / 0.5 - 2.0	180	50	150
008679	CF–406F				200
008680	CF–406V				400
008681	CF–408J	8 / 0.5 - 2.0	180	50	150
008682	CF–408F				200
008683	CF–408V				400
008684	CF–12	PVC AMBALAJLI 12'Lİ PAKET			



FA–10'lu Elmas Eğe Seti

Sip. No	Ürün Kodu	Form	Boy	Elmas Boyu	Genişlik	Kalınlık	Kum
008685	FA–101		90	60	10	1	200 & 400
008686	FA–102		90	60	8	1	200 & 400
008687	FA–103		70	40	6	0.8	200 & 400
008688	FA–104		60	25	4	0.8	200 & 400
008689	FA–105		45	15	2	0.8	200 & 400
008690	FA–10	PVC AMBALAJLI 10'LU PAKET					



MTF–12'li Elmas Eğe Seti

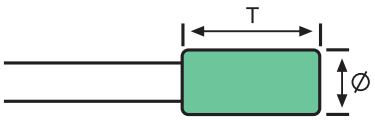
Sip. No	Ürün Kodu	Form	Boy	Elmas Boyu	Kum
008691	MTF–13F	3 / 0.3 - 1.4	72	15	200
008692	MTF–13V				400
008693	MTF–13X				600
008694	MTF–16F	6 / 0.3 - 1.4	72	15	200
008695	MTF–16V				400
008696	MTF–16X				600
008697	MTF–23F	3 / 0.3 - 1.4	56	15	200
008698	MTF–23V				400
008699	MTF–23X				600
008700	MTF–26F	6 / 0.3 - 1.4	56	15	200
008701	MTF–26V				400
008702	MTF–26X				600
008703	MTF–12	PVC AMBALAJLI 12'Lİ PAKET			



IF50–5'li Elmas Eğe Seti

Sip. No	Ürün Kodu	Form	Boy	Elmas Boyu	Kalınlık	Genişlik	Kum
008704	IF–501		215	80	3.5	11	100
008705	IF–502		215	80	4.4	10.5	100
008706	IF–503		215	80	5.0	Ø	100
008707	IF–504		215	80	6.3	6.3	100
008708	IF–505		215	80	7.7	7.7	100
008709	IF–50	PVC AMBALAJLI 10'LU PAKET					

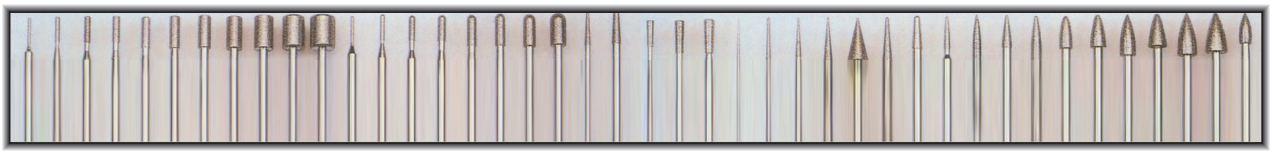




Sip. No	Tip
008710	Set

Püskürtme Spiral Elmas Uçlar

Şaft 3 mm



Sip. No	Ürün	Form	Ø	T
008711	10A		1	8
008712	15A		1.5	8
008713	20A		2	8
008714	25A		2.5	8
008715	30A		3	10
008716	35A		3.5	10
008717	40A		4	10
008718	50A		5	10
008719	60A		6	10
008720	10C		1	8
008721	15C		1.5	8
008722	20C		2	8
008723	25C		2.5	8
008724	30C		3	10
008725	35C		3.5	10
008726	40C		4	10
008727	50C		5	10
008728	60C		6	10
008729	20T		2	10

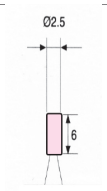
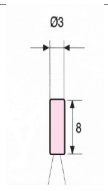
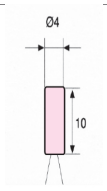
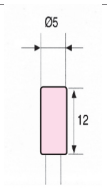
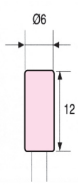
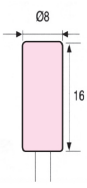
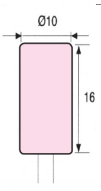
Sip. No	Ürün	Form	Ø	T
008730	30T		3	10
008731	30V		3	10
008732	13R		1.2	16
008733	14R		1.5	13
008734	15R		1.5	10
008735	20R		2	12
008736	30R		3	14
008737	31R		3.3	15
008738	32R			10
008739	20P		2	12
008740	30P		3	15
008741	40P		4	15
008742	50P		5	15
008743	60P		6	13
008744	20F		2	10
008745	30F		3	10
008746	33F		3.3	15
008747	40F		4	10
008748	50F		5	10

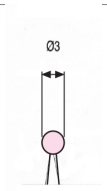
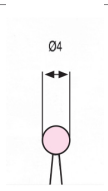
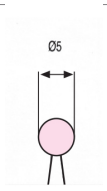
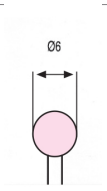
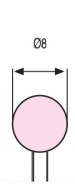
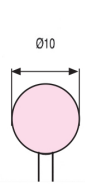
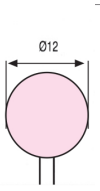
Sip. No	Ürün	Form	Ø	T
008749	60F		6	12
008750	61F		6	10
008751	20J		2	6
008752	30J		3	14
008753	40J		4	9
008754	50J		5	10
008755	51J		5	13
008756	60J			13
008757	10B		1	8
008758	15B		1.5	-
008759	20B		2	-
008760	25B		2.5	-
008761	30B		3	-
008762	40B		4	-
008763	50B		5	-
008764	60B		6	-
008765	80B		8	-
008766	30Q		3	5
008767	40Q		4	7

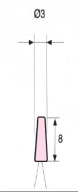
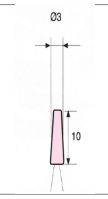
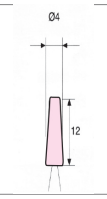
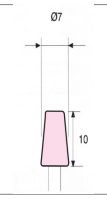
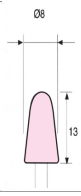
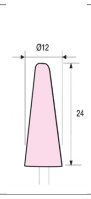
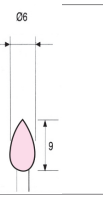
Sip. No	Ürün	Form	Ø	T
008768	50Q		5	9
008769	51Q		5	12
008770	60Q		6	10
008771	61Q		6	12
008772	20S		2	4
008773	30S		3	6
008774	31S			5.5
008775	32S		3	6
008776	33S		3	6
008777	34S		3	6
008778	35S		3	6
008779	36S		3	5
008780	40S		4	8
008781	50S		5	10
008782	60S		6	12
008783	1320U		13	2
008784	1325U		13	2.5
008785	1320E		13	2
008786	1325E		13	2.5

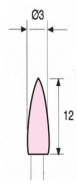
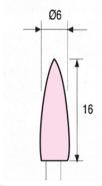
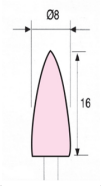
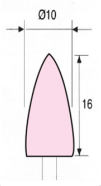
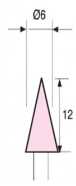
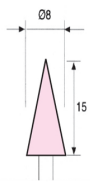
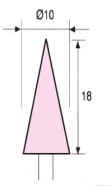


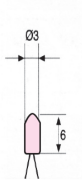
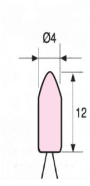
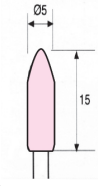
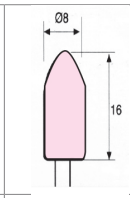
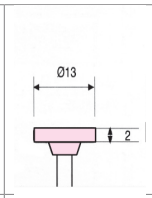
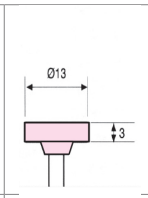
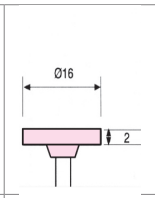
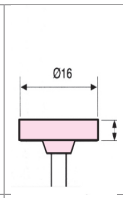
3mm Şaftlı Spiral Taşlar

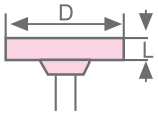
							
Sip. No	008787	008788	008789	008790	008791	008792	008793
Ürün	256A	308A	410A	510A	612A	816A	1016A

							
Sip. No	008794	008795	008796	008797	008798	008799	008800
Ürün	30B	40B	50B	60B	80B	100B	120B

							
Sip. No	008801	008802	008803	008804	008805	008806	008807
Ürün	308T	310T	412T	710T	813R	122R*	609S

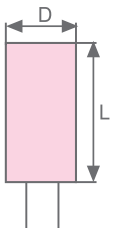
							
Sip. No	008808	008809	008810	008811	008812	008813	008814
Ürün	412J	616J	816J	1016J	612P	815P	1018P*

								
Sip. No	008815	008816	008817	008818	008819	008820	008821	008822
Ürün	306K	412K	515K	816K	132E	133E	162E*	163E*



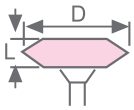
Sip. No	Ürün	D x L
008823	A–1	12 x 4
008824	A–2	16 x 4
008825	A–3	16 x 8
008826	A–4	20 x 4
008827	A–5	20 x 8
008828	A–6	20 x 16
008829	A–7	24 x 4
008830	A–8	25 x 8
008831	A–9	25 x 10
008832	A–10	25 x 20
008833	A–11	30 x 4
008834	A–12	30 x 8

Sip. No	Ürün	D x L
008835	A–13	30 x 16
008836	A–14	30 x 20
008837	A–15	40 x 6
008838	A–16	40 x 10
008839	A–17	40 x 16
008840	A–18	40 x 20
008841	A–19	50 x 10
008842	A–20	50 x 16
008843	A–21	50 x 20
008844	A–22	60 x 16
008845	A–23	60 x 20

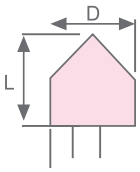


Sip. No	Ürün	D x L
008846	B–1	3 x 8
008847	B–2	4 x 8
008848	B–3	5 x 10
008849	B–4	6 x 12
008850	B–5	6 x 16
008851	B–6	8 x 12
008852	B–7	8 x 16
008853	B–8	10 x 10
008854	B–9	10 x 15
008855	B–10	10 x 20
008856	B–11	10 x 25
008857	B–12	12 x 12
008858	B–13	12 x 20
008859	B–14	12 x 30
008860	B–15	16 x 16

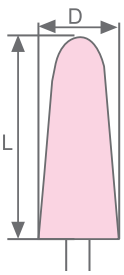
Sip. No	Ürün	D x L
008861	B–16	16 x 20
008862	B–17	16 x 30
008863	B–18	16 x 40
008864	B–19	20 x 20
008865	B–20	20 x 30
008866	B–21	20 x 40
008867	B–22	25 x 25
008868	B–23	25 x 32
008869	B–24	25 x 40
008870	B–25	25 x 50
008871	B–26	30 x 30
008872	B–27	30 x 40
008873	B–28	30 x 50
008874	B–29	40 x 40



Sip. No	Ürün	D x L
008875	C–1	25 x 8
008876	C–2	32 x 8
008877	C–3	40 x 10
008878	C–4	50 x 12

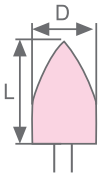


Sip. No	Ürün	D x L
008879	D–1	8 x 20
008880	D–2	10 x 25
008881	D–3	12 x 20
008882	D–4	16 x 25
008883	D–5	20 x 35

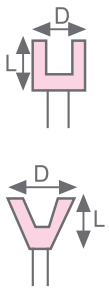


Sip. No	Ürün	D x L
008884	E–1	5 x 5
008885	E–2	5 x 10
008886	E–3	8 x 16
008887	E–4	8 x 20
008888	E–5	10 x 20
008889	E–6	10 x 30
008890	E–7	12 x 25
008891	E–8	12 x 30
008892	E–9	12 x 40
008893	E–10	16 x 16
008894	E–11	16 x 32

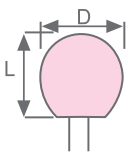
Sip. No	Ürün	D x L
008895	E–12	16 x 40
008896	E–13	20 x 20
008897	E–14	20 x 30
008898	E–15	20 x 40
008899	E–16	25 x 25
008900	E–17	25 x 32
008901	E–18	25 x 40
008902	E–19	32 x 32
008903	E–20	32 x 40
008904	E–21	32 x 50



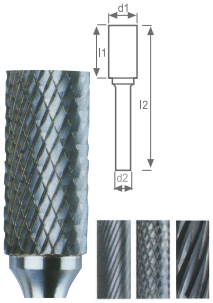
Sip. No	Ürün	D x L
008905	B–1	8 x 16
008906	B–2	13 x 20
008907	B–3	20 x 32
008908	B–4	20 x 40



Sip. No	Ürün	D x L
008909	G–K–1	20 x 16
008910		12 x 20
008911	G–K–2	25 x 20
008912		15x 12
008913	G–K–3	32 x 25
008914		20 x 15
008915	G–K–4	40 x 32
008916		24 x 20

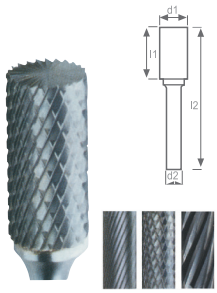


Sip. No	Ürün	D
008917	H–1	8
008918	H–2	10
008919	H–3	12
008920	H–4	15
008921	H–5	20
008922	H–6	25
008923	H–7	30
008924	H–8	32



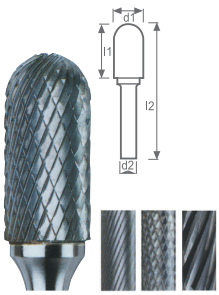
Silindir Düz Uçlu

Sip. No	d1	l1	d2	l2	Düz Kanallı	Talaş Kırıcılı	Alü.
008925	1.5	6	3	38	•	•	
008926	2.4	2.4	13	38	•	•	
008927	3	13	3	38	•	•	
008928	4	13	4	50	•	•	
008929	6	13	3	45	•	•	
008930	6	19	6	50	•	•	•
008931	8	19	6	65	•	•	
008932	10	19	6	65	•	•	•
008933	12	25	6	70	•	•	•
008934	16	25	6	70	•	•	•



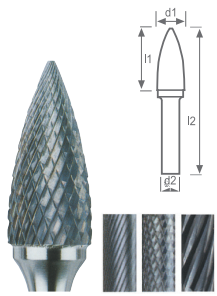
Silindir Alın Kesicili

Sip. No	d1	l1	d2	l2	Düz Kanallı	Talaş Kırıcılı	Alü.
008935	1.5	6	3	38	•	•	
008936	2.4	2.4	13	38	•	•	
008937	3	13	3	38	•	•	
008938	4	13	4	50	•	•	
008939	6	13	3	45	•	•	
008940	6	19	6	50	•	•	•
008941	8	19	6	65	•	•	
008942	10	19	6	65	•	•	•
008943	12	25	6	70	•	•	•
008944	16	25	6	70	•	•	•



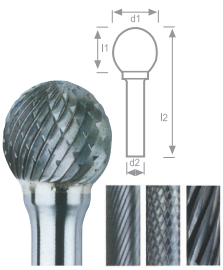
Silindir Küre Uçlu

Sip. No	d1	l1	d2	l2	Düz Kanallı	Talaş Kırıcılı	Alü.
008945	2.5	11	3	38	•	•	
008946	3	13	3	38	•	•	
008947	5	16	6	50	•	•	
008948	6	13	3	45	•	•	
008949	6	19	6	50	•	•	•
008950	8	19	6	65	•	•	
008951	10	19	6	65	•	•	•
008952	10	25	6	70	•	•	
008953	12	25	6	70	•	•	•
008954	16	25	6	70	•	•	•



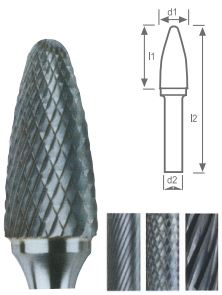
Çam

Sip. No	d1	l1	d2	l2	Düz Kanallı	Talaş Kırıcılı	Alü.
008955	3	6	3	38	•	•	
008956	3	10	3	38	•	•	
008957	3	13	3	38	•	•	
008958	6	13	3	45	•	•	
008959	6	19	6	50	•	•	
008960	8	19	6	65	•	•	
008961	10	19	6	65	•	•	
008962	12	19	6	65	•	•	
008963	12	25	6	70	•	•	
008964	16	25	6	70	•	•	



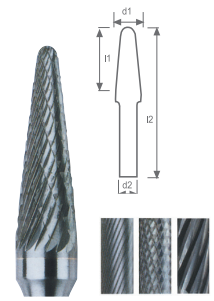
Küre

Sip. No	d1	l1	d2	l2	Düz Kanallı	Talaş Kırıcılı	Alü.
008965	3	2.7	3	38	•	•	
008966	4	3.6	3	45	•	•	
008967	5	4.7	3	38	•	•	
008968	6	5.4	3	38	•	•	
008969	6	5.4	6	50	•	•	•
008970	8	7.2	6	52	•	•	
008971	10	9	6	53	•	•	•
008972	12	10.8	6	55	•	•	•
008973	16	14.4	6	60	•	•	•
008974	19	17.1	6	63	•	•	•



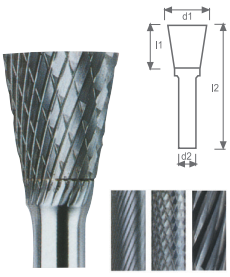
Küre Uçlu Çam

Sip. No	d1	l1	d2	l2	Düz Kanallı	Talaş Kırıcılı	Alü.
008975	3	6	3	38	•	•	
008976	3	13	3	38	•	•	
008977	6	13	3	45	•	•	•
008978	10	19	6	65	•	•	•
008979	12	19	6	65		•	
008980	12	25	6	70	•	•	•
008981	16	25	6	70	•	•	•



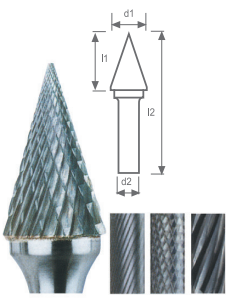
Küre Uçlu Konik

Sip. No	d1	l1	d2	l2	Düz Kanallı	Talaş Kırıcılı	Alü.
008982	3	8	3	38	•	•	
008983	3	9.5	3	38	•	•	
008984	3	13	3	38	•	•	
008985	6	13	3	45	•	•	
008986	6	16	6	50	•	•	•
008987	8	19	6	69		•	
008988	10	19	6	65	•	•	
008989	10	27	6	75	•	•	•
008990	12	30	6	75	•	•	•
008991	16	33	6	78	•	•	•



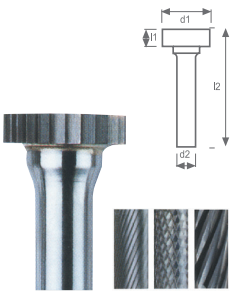
Ters Konik

Sip. No	d1	l1	d2	l2	Düz Kanallı	Talaş Kırıcılı	Alü.
008992	3	7	3	38	•	•	
008993	6	7	6	50	•	•	
008994	9.5	9.5	6	53		•	
008995	12	13	6	58	•	•	
008996	12	13	8	58	•	•	
008997	16	19	6	63		•	
008998	16	19	8	63		•	



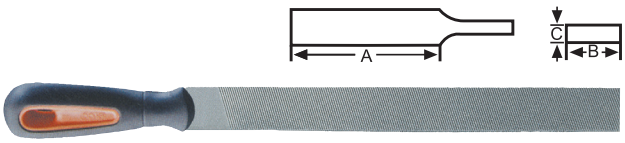
Konik

Sip. No	d1	l1	d2	l2	Düz Kanallı	Talaş Kırıcılı	Alü.
008999	3	11	3	38	•	•	
009000	3	16	3	38	•	•	
009001	6	13	3	38		•	
009002	6	19	6	50	•	•	
009003	6	25	6	50	•	•	
009004	10	16	6	65	•	•	
009005	12	19	6	65	•	•	
009006	12	22	6	70	•	•	
009007	12	22	8	70	•	•	
009008	16	22	6	73		•	

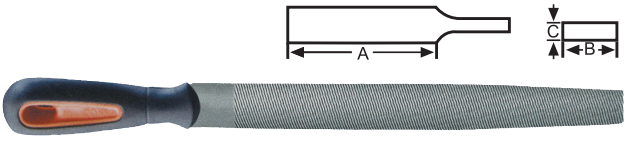


T Yarık

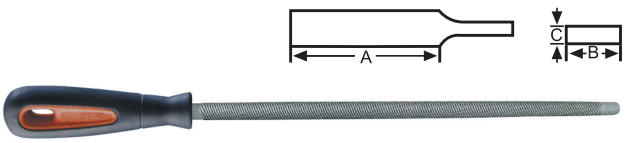
Sip. No	d1	l1	d2	l2	Düz Kanallı	Talaş Kırıcılı	Alü.
009009	10	1.6	3	34	•		
009010	12	2.6	6	48	•		
009011	25	5.2	8	50	•		
009012	25	6.3	8	51	•	•	



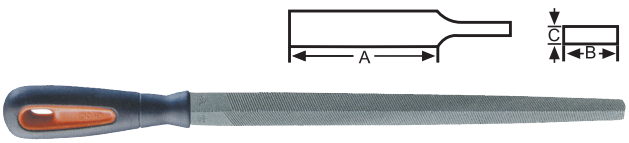
Sip. No	Form	Ebat	A	B	C
009013	Lama	4	100	12	3
009014		6	150	16	4
009015		8	200	20	5
009016		10	250	25	5.5
009017		12	300	30	6



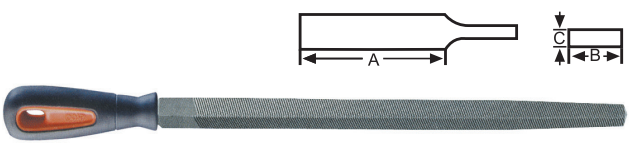
Sip. No	Form	Ebat	A	B	C
009018	Yarım Yuvarlak	4	-	-	-
009019		6	150	16.0	4.7
009020		8	200	20.5	6
009021		10	250	26.5	7.5
009022		12	300	31.0	9



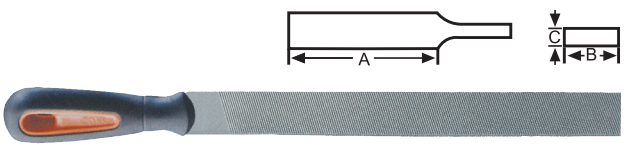
Sip. No	Form	Ebat	A	B	C
009023	Yuvarlak	4	-	-	
009024		6	150	6	
009025		8	200	8	
009026		10	250	10	
009027		12	300	12	



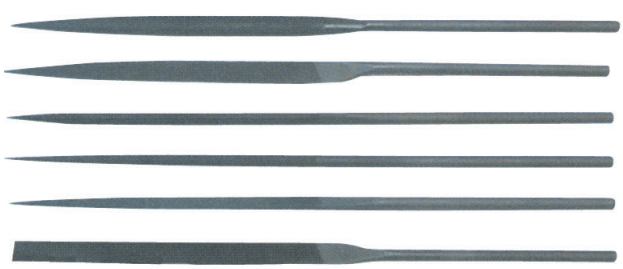
Sip. No	Form	Ebat	A	B	C
009028	Üç Köse	4	-	-	
009029		6	150	11.0	
009030		8	200	15.5	
009031		10	250	17.5	
009032		12	300	19.5	



Sip. No	Form	Ebat	A	B	C
009033	Kare	4	-	-	
009034		6	150	6	
009035		8	200	8	
009036		10	250	10	
009037		12	300	12	

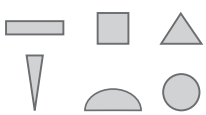


Sip. No	Form	Ebat	A	B	C
009038	Mil Egesi (iki Kenarı Düz)	4	-	-	-
009039		6	150	16	2.7
009040		8	200	20	3.3
009041		10	250	25	4.0
009042		12	300	30	5.0



Saatçi Eğeleri

6'lı ve 12'li Takımlar
A = 140–160 mm Setler



Sip. No	Set
009043	6'lı
009044	12'li



NK Zımpara Taşı

Sip. No	Ölçü	Kum
009045	125 x 20 x 20	24
009046	150 x 20 x 20	24
009047	150 x 25 x 20	24
009048	175 x 20 x 20	24
009049	175 x 25 x 20	24
009050	200 x 20 x20	24
009051	200 x 25 x 20	24
009052	200 x 30 x 20	24
009053	200 x 32 x 20	24
009054	250 x 25 x 25	24
009055	250 x 32 x 25	24
009056	250 x 40 x 25	24
009057	300 x 30 x 30	24
009058	300 x 32 x 30	24
009059	300 x 40 x 30	24
009060	350 x 40 x 40	24
009061	400 x 40 x 40	24
009062	75 x 13 x 10	36

Sip. No	Ölçü	Kum
009063	100 x 13 x 10	36
009064	100 x 16 x 20	36
009065	125 x 16 x 16	36
009066	125 x 20 x 20	36
009067	150 x 20 x 20	36
009068	150 x 25 x 20	36
009069	175 x 20 x 20	36
009070	175 x 25 x 20	36
009071	200 x 20 x20	36
009072	200 x 25 x 20	36
009073	200 x 30 x 20	36
009074	200 x 32 x 20	36
009075	250 x 25 x 25	36
009076	250 x 30 x 25	36
009077	250 x 32 x 25	36
009078	250 x 40 x 25	36
009079	300 x 30 x 30	36
009080	300 x 32 x 30	36

Sip. No	Ölçü	Kum
009081	300 x 40 x 30	36
009082	350 x 40 x 40	36
009083	400 x 40 x 40	36
009084	75 x 13 x 10	46
009085	100 x 13 x 10	46
009086	100 x 16 x 20	46
009087	125 x 16 x 16	46
009088	125 x 20 x 20	46
009089	150 x 20 x 20	46
009090	150 x 25 x 20	46
009091	175 x 20 x 20	46
009092	175 x 25 x 20	46
009093	200 x 20 x20	46
009094	200 x 25 x 20	46
009095	200 x 30 x 20	46
009096	200 x 32 x 20	46
009097	250 x 25 x 25	46
009098	250 x 30 x 25	46

Sip. No	Ölçü	Kum
009099	250 x 32 x 25	46
009100	250 x 40 x 25	46
009101	300 x 30 x 30	46
009102	300 x 32 x 30	46
009103	300 x 40 x 30	46
009104	350 x 40 x 40	46
009105	400 x 40 x 40	46
009106	75 x 13 x 10	60
009107	100 x 13 x 10	60
009108	100 x 16 x 20	60
009109	125 x 16 x 16	60
009110	125 x 20 x 20	60
009111	150 x 25 x 20	60
009112	150 x 25 x 20	60
009113	175 x 20 x 20	60
009114	175 x 25 x 20	60
009115	200 x 20 x20	60



EKR Taşlama Taşı

Sip. No	Ölçü	Kum
009116	150 x 20 x 20	36
009117	175 x 20 x 20	36
009118	250 x 25 x 76.2	36
009119	250 x 30 x 76.2	36
009120	250 x 32 x 76.2	36
009121	250 x 40 x 76.2	36
009122	300 x 40 x 127	36
009123	350 x 40 x 127	36
009124	350 x 50 x 127	36
009125	400 x 40 x 127	36
009126	150 x 20 x 20	36
009127	175 x 20 x 20	46

Sip. No	Ölçü	Kum
009128	200 x 20 x20	46
009129	250 x 25 x 76.2	46
009130	250 x 30 x 76.2	46
009131	250 x 32 x 76.2	46
009132	250 x 40 x 76.2	46
009133	300 x 40 x 127	46
009134	300 x 40 x 127	46
009135	350 x 40 x 127	46
009136	350 x 50 x 127	46
009137	400 x 40 x 127	46
009138	150 x 20 x 20	60
009139	175 x 20 x 20	60

Sip. No	Ölçü	Kum
009140	200 x 20 x20	60
009141	250 x 25 x 76.2	60
009142	250 x 30 x 76.2	60
009143	250 x 32 x 76.2	60
009144	250 x 40 x 76.2	60
009145	300 x 40 x 76.2	60
009146	300 x 40 x 127	60
009147	350 x 40 x 127	60
009148	350 x 50 x 127	60
009149	400 x 40 x 127	60



SCG Elmas Taş

Sip. No	Ölçü	Kum
009150	125 x 20 x 25	80
009151	150 x 20 x 20	80
009152	150 x 25 x 20	80
009153	175 x 20 x 20	80
009154	175 x 25 x 20	80
009155	200 x 20 x20	80
009156	200 x 25 x 20	80
009157	200 x 32 x 20	80
009158	250 x 25 x 25	80
009159	250 x 32 x 25	80
009160	300 x 32 x 30	80



EKR Takım Bileme Çanak Taşları Form D

Sip. No	Ölçü	Kum
009161	50 x 32 x 13	60
009162	75 x 40 x 20	60
009163	100 x 50 x 20	60
009164	125 x 63 x 20	60
009165	150 x 80 x 20	60



Kesici Diskler

Tip 42

Sip. No	Ölçü	Evsaf
009166	100 x 2.5 x 16	A 36 T BF80
009167	100 x 3.0 x 16	A 36 T BF80
009168	115 x 2.5 x 22.23	A 36 T BF80
009169	115 x 3.0 x 22.23	A 36 T BF80
009170	125 x 2.5 x 22.23	A 36 T BF80
009171	125 x 3.0 x 22.23	A 36 T BF80
009172	180 x 2.5 x 22.23	A 36 T BF80
009173	180 x 3.0 x 22.23	A 36 T BF80
009174	230 x 2.5 x 22.23	A 36 T BF80
009175	230 x 3.0 x 22.23	A 36 T BF80

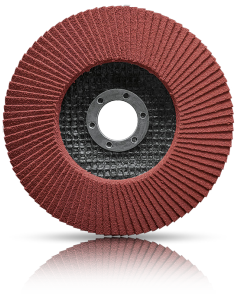
Tip 41

Sip. No	Ölçü	Evsaf
009176	115 x 2.5 x 22.23	A 36 T BF80
009177	115 x 3.0 x 22.23	A 36 T BF80
009178	125 x 2.5 x 22.23	A 36 T BF80
009179	125 x 3.0 x 22.23	A 36 T BF80
009180	150 x 3.0 x 22.23	A 36 T BF80
009181	180 x 2.5 x 22.23	A 36 T BF80
009182	180 x 3.0 x 22.23	A 36 T BF80
009183	230 x 2.5 x 22.23	A 36 T BF80
009184	230 x 3.0 x 22.23	A 36 T BF80

Tip 41 İnce

Sip. No	Ölçü	Evsaf
009185	115 x 1.0 x 22.23	A 54 R BF80
009186	115 x 1.6 x 22.23	A 46 R BF80
009187	125 x 1.0 x 22.23	A 54 R BF80
009188	125 x 1.6 x 22.23	A 46 R BF80
009189	180 x 1.9 x 22.23	A 36 R BF80
009190	230 x 1.9 x 22.23	A 36 R BF80





Flap Disk Zımpara

Sip. No	Ölçü	Kum
009191	100 x 16	40
009192	100 x 16	60
009193	100 x 16	80
009194	100 x 16	120
009195	115 x 22.23	36
009196	115 x 22.23	40
009197	115 x 22.23	50
009198	115 x 22.23	60
009199	115 x 22.23	80
009200	115 x 22.23	100
009201	115 x 22.23	120
009202	125 x 22.23	36
009203	125 x 22.23	40

Sip. No	Ölçü	Kum
009204	125 x 22.23	50
009205	125 x 22.23	60
009206	125 x 22.23	80
009207	125 x 22.23	100
009208	125 x 22.23	120
009209	180 x 22.23	36
009210	180 x 22.23	40
009211	180 x 22.23	50
009212	180 x 22.23	60
009213	180 x 22.23	80
009214	180 x 22.23	100
009215	180 x 22.23	120



Sip. No	Çap	Ebat	Delik Çapı
009216	100	5 x 2	20
009217	100	5 x 3	20
009218	100	6 x 2	20
009219	100	6 x 3	20
009220	100	8 x 2	20
009221	100	8 x 3	20
009222	100	10 x 3	20

Elmas Çanak Taş

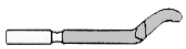
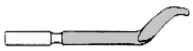
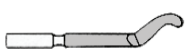


Sip. No	Karat
009223	0.30
009224	0.50
009225	0.75
009226	1.00
009227	1.50
009228	2.00
009229	2.50
009230	3.00

Taş Düzeltme Elması

Çapak Alma Raspa Uçları

Uçlar 10'lu paket halindedir.

Sip. No	Kod	Ürün	Sip. No	Kod	Ürün	Sip. No	Kod	Ürün
009231	S10 BS1010		009232	S20 BS2015		009233	S101 BS1010	
009234	S10 LH BS1011		009235	S30 BS3010		009236	S101 LH BS1011	
009237	S10 TIN BS1012		009238	S35 BS3510		009239	S101 TIN BS1012	
009240	S10C BS1016		009241	S60 BS6010		009242	S150 BS3000	
009243	S10C BS2010		009244	S100 BS1018		009245	S202 BS2010	



Çapak Alma Raspa Bıçağı

Sip. No
009246



Çapak Alma Raspa Bıçağı

Sip. No
009247



Çapak Alma Raspa Bıçağı

Sip. No
009248



Çapak Alma Raspa Bıçağı

Sip. No
009249



Çapak Alma Raspa Bıçağı

Sip. No
009250



30° Yolluk Kesme Makası

Sip. No
009251



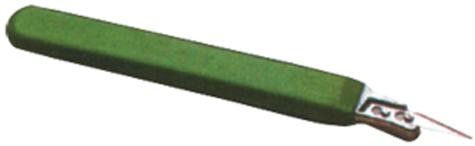
45° Yolluk Kesme Makası

Sip. No
009252



90° Yolluk Kesme Makası

Sip. No
009253



Plastik Çapak Alma Bıçağı

Sip. No
009254



1108–Standart Dijital Kumpas

DIN862
Standart Model
Bilgi Çıkışı 0.01 mm / 0.0005"
Hassasiyet :

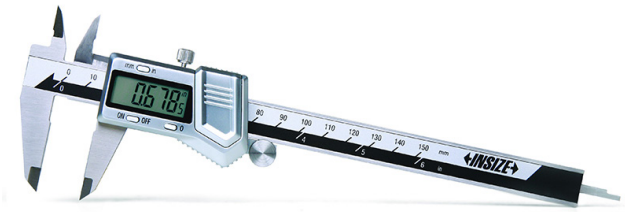
Sip. No	Ürün Kodu	Ölçüm Aralığı	Derinlik Çubuğu
009255	1112	0–150 mm / 0–6"	Bıçak
009256	1108	0–150 mm / 0–6"	Bıçak
009257	1108	0–200 mm / 0–8"	Bıçak
009258	1108	0–300 mm / 0–12"	Bıçak



1118–Dijital Kumpas (IP67)

DIN862
IP67 Koruma
(Suya ve Toza Karşı Dayanıklı) 0.01 mm / 0.0005"
Hassasiyet :

Sip. No	Ölçüm Aralığı
009259	0–150 mm / 0–6"
009260	0–200 mm / 0–8"
009261	0–300 mm / 0–12"



1114–Paslanmaz Dijital Kumpas

DIN862
Çinko Alaşımlı Dijital Birim Muhafazası Paslanmaz Çelik İmal Edilmiştir
CR2032 Lityum Pil 0.01 mm / 0.0005"
Hassasiyet :

Sip. No	Ölçüm Aralığı
009262	0–150 mm / 0–6"
009263	0–200 mm / 0–8"
009264	0–300 mm / 0–12"



1106–Dijital Kumpas

İç Ölçüm Çenelerinin Genişliği 10 mm veya 20 mm
Bilgi Çıkışı
Hassasiyet : 0.01 mm / 0.0005"

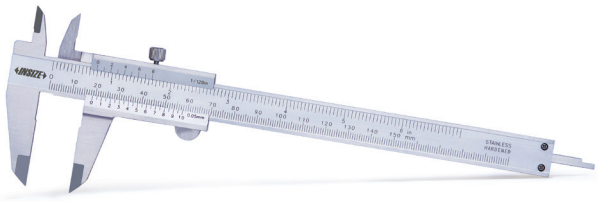
Sip. No	Ölçüm Aralığı	Standart Çene Uzunluğu
009265	0–400 mm / 0–16"	100 mm
009266	0–500 mm / 0–20"	100 mm
009267	0–600 mm / 0–24"	100 mm
009268	0–1000 mm / 0–40"	100 mm



1111–Dijital Kumpas (Mini Model)

DIN862
Hassasiyet : 0.01 mm / 0.0005"

Sip. No	Ölçüm Aralığı
009269	0–75 mm / 0–3"
009270	0–100 mm / 0–4"

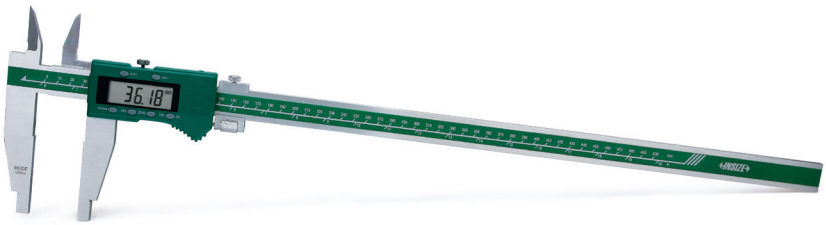


1205–Standart Mekanik Kumpas

DIN862
Mono Blok
Hassasiyet : 0.02 mm, 0.02 / 0.001", 0.05 mm

Sip. No	Ölçüm Aralığı	Hassasiyet
009271	0–100 mm / 0–4"	0.05 mm / 1 / 128"
009272	0–150 mm / 0–6"	0.05 mm / 1 / 128"
009273	0–200 mm / 0–8"	0.05 mm / 1 / 128"
009274	0–300 mm / 0–12"	0.05 mm / 1 / 128"

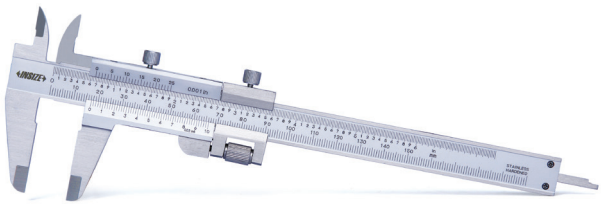
Yuvarlak Uçlu Derinlik Çubuğu Opsiyoneldir.
Titanyum Kaplamalı Skala Opsiyoneldir.



Sip. No	Ölçüm Aralığı	Çene Uzunluğu
009275	0–300 mm / 0–12"	90 mm / 3.5"
009276	0–450 mm / 0–16"	90 mm / 3.5"
009277	0–500 mm / 0–20"	100 mm / 3.9"
009278	0–600 mm / 0–24"	100 mm / 3.9"
009279	0–1000 mm / 0–40"	150 mm / 5.9"
009280	0–1500 mm / 0–60"	150 mm / 5.9"
009281	0–2000 mm / 0–80"	150 mm / 5.9"

1136–Dijital Kumpas

İç Ölçüm Çenelerinin Genişliği 10 mm veya 20 mm
Bilgi Çıkışı
Hassasiyet : 0.01 mm / 0.0005"



1233–Hassas Ayarlı Mekanik Kumpas

DIN862
Hassas Ayarlı Paslanmaz Çelik
Hassasiyet : 0.02 / 0.001"

Sip. No	Ölçüm Aralığı	Hassasiyet
009282	0–130 mm / 0–5"	± 0.03 mm
009283	0–180 mm / 0–7"	± 0.03 mm
009284	0–280 mm / 0–11"	± 0.03 mm



1208–Mekanik Kumpas

DIN862
Hassas Ayarlanabilir
Alternatif Hassasiyet : 0.02 mm, 0.02 / 0.001", 0.05 mm
Hassasiyet : 0.05 mm / 1 / 128"

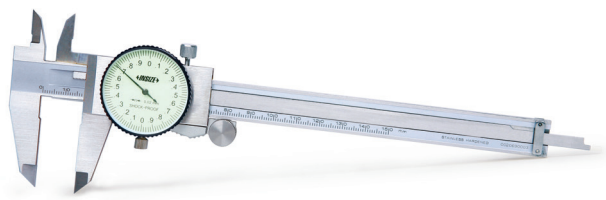
Sip. No	Ölçüm Aralığı	Standart Çene Uzunluğu
009285	0–200 mm / 0–8"	100 mm
009286	0–300 mm / 0–12"	90 mm / 150 mm
009287	0–500 mm / 0–20"	150 mm
009288	0–600 mm / 0–24"	100 mm / 150 mm
009289	0–800 mm / 0–32"	150 mm
009290	0–1000 mm / 0–40"	150 mm
009291	0–1500 mm / 0–60"	150 mm
009292	0–2000 mm / 0–80"	150 mm



1207–Mekanik Kumpas

DIN862
Hassas Ayarlanabilir
Alternatif Hassasiyet : 0.02 mm, 0.02 / 0.001", 0.05 mm
Hassasiyet : 0.05 mm / 1 / 128"

Sip. No	Ölçüm Aralığı	Standart Alt Çene Uzunluğu	Üst Çene Uzunluğu
009293	0–300 mm / 0-12"	90 mm	40 mm
009294	0–500 mm / 0-20"	100 mm / 150 mm	56 mm
009295	0–800 mm / 0-32"	150 mm	67 mm
009296	0–1000 mm / 0-40"	150 mm	67 mm



1311 / 1312–Saatli Kumpas

DIN862
Sertleştirilmiş Paslanmaz Çelik

Sip. No	Ölçüm Aralığı	Hassasiyet
009297	0–150 mm	0.01 mm
009298	0–150 mm	0.02 mm
009299	0–200 mm	0.01 mm
009300	0–200 mm	0.02 mm
009301	0–300 mm	0.01 mm
009302	0–300 mm	0.02 mm



1120–Dijital İç Kanal Kumpası

Dar Kanalların Ölçümü İçin
Hassasiyet : 0.01 mm / 0.0005"

Sip. No	Ölçüm Aralığı	Ölçüm Derinliği
009303	22–150 mm / 0.9–6"	35 mm / 1.4"
009304	25–200 mm / 1–8"	40 mm / 1.6"
009305	30–300 mm / 1.2–12"	50 mm / 2"



1110–Dijital Sert Ölçüm Ağızlı Kumpas

İç Çap ve Dış Çap Ölçümleri için Karbür Çeneli
DIN862 0.01 mm / 0.0005"
Hassasiyet :

Sip. No	Ölçüm Aralığı
009306	0–150 mm / 0–6"
009307	0–200 mm / 0–8"
009308	0–300 mm / 0–12"



1121–Dijital İç Kanal Kumpası Yuvarlak Uçlu

Dar Kanalların Ölçümü İçin
Hassasiyet : 0.01 mm / 0.0005"

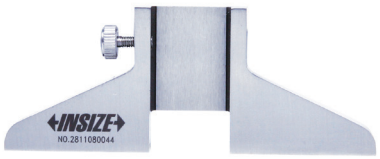
Sip. No	Ölçüm Aralığı	Hassasiyet
009309	24–150 mm	± 0.04 mm
009310	25–200 mm	± 0.04 mm
009311	50–300 mm	± 0.06 mm



1187–Dijital Dış Kanal Kumpası

Dar Oluklar ve Küçük Yerler İçin
Hassasiyet : 0.01 mm / 0.0005"

Sip. No	Ölçüm Aralığı	Ölçüm Derinliği
009312	0–150 mm / 0–6"	40 mm / 1.6"



6140–Kumpas Derinlik Ölçüm Ayağı

Paslanmaz Çelik

Sip. No	Taban Uzunluğu
009313	76 mm / 3"



1244–Mini Derinlik Kumpası

Hassasiyet : metrik 0.02 mm
Bilgi Çıkışı inç 0.001"

Sip. No	Ölçüm Aralığı	Taban Uzunluğu
009314	0–30 mm	55 mm



1141–Dijital Derinlik Kumpası

DIN862
Hassasiyet : 0.01 mm / 0.0005"

Sip. No	Ölçüm Aralığı	Taban Uzunluğu
009315	0–150 mm / 0–6"	100 mm
009316	0–200 mm / 0–8"	100 mm
009317	0–300 mm / 0–12"	150 mm
009318	0–500 mm / 0–20"	150 mm



1240–Derinlik Kumpası

DIN862
Standart Model
Hassasiyet : metrik 0.05 mm (Opsiyonel: 0.02 mm)

Sip. No	Ölçüm Aralığı	Taban Uzunluğu
009319	0–150 mm	100 mm
009320	0–200 mm	100 mm
009321	0–300 mm	100 mm
009322	0–500 mm	150 mm

1156–Dijital Makaralı Yükseklik Mihengiri

Hassasiyet : 0.01 mm / 0.0005"
DIN862



Sip. No	Ölçüm Aralığı	Doğruluk
009323	0–300 mm / 0–12"	± 0.03 mm
009324	0–600 mm / 0–24"	± 0.05 mm
009325	0–1000 mm / 0–40"	± 0.07 mm

1351–Saatli Çift Sütunlu Yükseklik Mihengiri

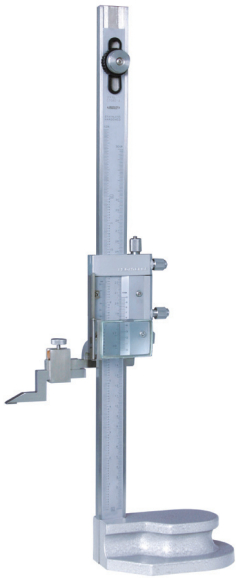
Hassasiyet : 0.01 mm
Sayaç Okuma : 1 mm
DIN862



Sip. No	Ölçüm Aralığı	Sütun
009326	0–300 mm	2
009327	0–450 mm	2
009328	0–600 mm	2

1250–Mekanik Yükseklik Mihengiri

Hassasiyet : 0.02 mm / 0.001"
DIN862



Sip. No	Ölçüm Aralığı
009329	0–300 mm / 0–12"
009330	0–450 mm / 0–18"
009331	0–600 mm / 0–24"

1150–Dijital Yükseklik Mihengiri

Hassasiyet : 0.01 mm / 0.0005"
DIN862



Sip. No	Ölçüm Aralığı
009332	0–300 mm / 0–12"
009333	0–500 mm / 0–20"
009334	0–600 mm / 0–24"
009335	0–1000 mm / 0–40"
009336	0–1500 mm / 0–60"
009337	0–2000 mm / 0–80"



Sip. No	Ölçüm Aralığı
009338	0–25 mm / 0–1"
009339	25–50 mm / 1–2"
009340	50–75 mm / 2–3"
009341	75–100 mm / 3–4"

3109 Set

Sip. No	Ölçüm Aralığı
009342	0–75 mm / 0–3" (3 Parça)
009343	0–100 mm / 0–4" (4 Parça)
009344	0–150 mm / 0–6" (6 Parça)

3109–Dijital Dış Çap Mikrometresi

Hassasiyet : 0.001 mm / 0.00005"
DIN863





Sip. No	Ölçüm Aralığı
009345	0–25 mm
009346	25–50 mm
009347	50–75 mm
009348	75–100 mm
009349	100–125 mm
009350	125–150 mm
009351	150–175 mm
009352	175–200 mm
009353	200–225 mm
009354	225–250 mm
009355	250–275 mm
009356	275–300 mm

3203 Set

Sip. No	Ölçüm Aralığı
009357	0–75 mm (3 Parça)
009358	30–100 mm (4 Parça)
009359	0–150 mm (6 Parça)
009360	150–300 mm (6 Parça)
009361	0–300 mm (12 Parça)

3203–Mekanik Dış Çap Mikrometresi

Hassasiyet : 0.01 mm (Opsiyonel 0.001 mm)
DIN863



3400–Numaratörlü Dış Çap Mikrometresi

Numaratör Hassasiyeti : metrik 0.01 mm
Skala Hassasiyeti : 0.01 mm
DIN863

Sip. No	Ölçüm Aralığı
009362	0–25 mm
009363	25–50 mm
009364	50–75 mm
009365	75–100 mm



3208–Hızlı Besleme Mikrometresi

Hassasiyeti : 0.01 mm
Her tur 1mm besleme
Karbür ölçüm ağızları

Sip. No	Ölçüm Aralığı
009366	0–25 mm
009367	25–50 mm
009368	50–75 mm
009369	75–100 mm



Sip. No	Ölçüm Aralığı
009370	0–25 mm
009371	25–50 mm
009372	50–75 mm
009373	75–100 mm
009374	100–125 mm
009375	125–150 mm
009376	150–175 mm

Sip. No	Ölçüm Aralığı
009377	0–1"
009378	1–2"
009379	2–3"
009380	3–4"
009381	4–5"
009382	5–6"
009383	6–7"

3232–Bıçak Ağızlı Mikrometre

Numaratör Hassasiyeti : 0.01 mm
Bıçak Ağzı : Kalınlık x Genişlik x Uzunluk
DIN863 0.75 x 6 x 6.5mm
Olukların Ölçülmesi için Bıçak Ağızlı Ölçüm Ucu



Sip. No	Ölçüm Aralığı
009384	0–25 mm
009385	25–50 mm
009386	50–75 mm
009387	75–100 mm
009388	100–125 mm
009389	125–150 mm
009390	150–175 mm
009391	175–200 mm

3108 Set

Sip. No	Ölçüm Aralığı
009392	0–75 mm (3 Parça)
009393	0–100 mm (4 Parça)
009394	0–150 mm (6 Parça)

3108–Dijital Dış Çap Mikrometresi

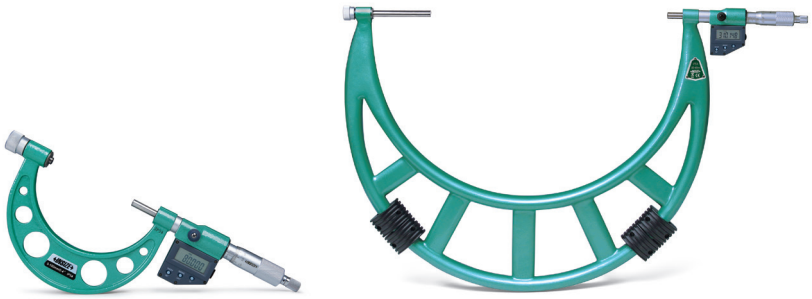
Hassasiyet : 0.01 mm
DIN863
IP54 Koruma



Sip. No	Ölçüm Aralığı	Doğruluk
009395	0–25 mm	± 2 um
009396	25–50 mm	± 2 um
009397	50–75 mm	± 2 um
009398	75–100 mm	± 2 um
009399	100–125 mm	± 2 um
009400	125–150 mm	± 2 um

3136–Sabit Milli Dijital Mikrometre

Hassasiyet : 0.01 mm
Sabit milli silindirler için uydundur.
Cırcırlı, bilgi çıkışlıdır.
DIN863



Sip. No	Ölçüm Aralığı
009401	0–100 mm / 0–4"
009402	0–150 mm / 0–6"
009403	150–300 mm / 6–12"
009404	200–300 mm / 8–12"
009405	300–400 mm / 12–16"
009406	400–500 mm / 16–20"
009407	500–600 mm / 20–24"
009408	600–700 mm / 24–28"
009409	700–800 mm / 28–32"
009410	800–900 mm / 32–36"
009411	900–1000 mm / 36–40"

3506–Dijital Değiştirilebilir Uçlu Dış Çap Mikrometresi

Hassasiyet : 0.01 mm / 0.00005"
DIN863
IP54 Koruma
Ölçüm Aralığı 300 mm / 12" 'e Kadar Olan Mikrometreler
Döküm Gövde, 300 mm / 12" Üstü Olanlar İçi Boş Boru Gövde



3260–Küresel Uçlu Mikrometre

Hassasiyet : 0.01 mm / 0.0005"
Boru Kalınlığı Ölçümü İçin
Ölçüm Uçları Küresel

Sip. No	Ölçüm Aralığı	Sip. No	Ölçüm Aralığı
009412	0–25 mm		0–1"
009413	25–50 mm		1–2"
009414	50–75 mm		2–3"
009415	75–100 mm		3–4"



3230–İğne Uçlu Mikrometre

Hassasiyet : 0.01 mm
Ölçüm Ucu : 30°, SR0.3 mm
Kanalların Olukların Kademelerinin Ölçümü için İğne Uçlu

Sip. No	Ölçüm Aralığı	Sip. No	Ölçüm Aralığı
009416	0–25 mm		0–1"
009417	25–50 mm		1–2"
009418	50–75 mm		2–3"
009419	75–100 mm		3–4"



3241–Derinlik Mikrometresi

Hassasiyet : 0.01 mm
Düz Ölçüm Uçlu (Küresel Uçlu Opsiyonel)
Taban Uzunluğu 101.5 mm (63 mm Opsiyonel)

Sip. No	Ölçüm Aralığı	Sip. No	Ölçüm Aralığı
009420	0–25 mm		0–150 mm
009421	0–50 mm		0–200 mm
009422	0–100 mm		0–300 mm



Düz Ölçüm Uçlu (Küresel Uçlu Opsiyonel)

3540–Dijital Derinlik Mikrometresi

Hassasiyet : 0.01 mm
Taban Uzunluğu 101.5 mm (63 mm Opsiyonel)
RS232 Bilgi Çıkışı–IP54 Koruma

Sip. No	Ölçüm Aralığı
009423	0–50 mm / 0–2"
009424	0–150 mm / 0–6"
009425	0–300 mm / 0–12"



3222–Uzatmalı Delik Mikrometresi

Hassasiyet : 0.01 mm
Mikrometre Kafası : 50–63 mm
Çubuk Çapı : 15.5 mm

Sip. No	Ölçüm Aralığı	Uzatma Çubuğu
009426	50–63 mm	Mikrometre Kafası
009427	50–300 mm	13 mm, 25 mm, 50 mm (2 Parça), 100 mm
009428	50–500 mm	13 mm, 25 mm, 50 mm (2 Parça), 100 mm, 200 mm
009429	50–600 mm	13 mm, 25 mm, 50 mm, 100 mm, 150 mm, 200 mm
009430	50–1000 mm	13 mm, 25 mm, 50 mm, 100 mm (2 Parça), 150 mm, 200 mm, 300 mm
009431	50–1500 mm	13 mm, 25 mm, 50 mm, 100 mm (2 Parça), 150 mm, 200 mm (2 Parça), 300 mm (2 Parça)



3220–İç Çap Mikrometresi

Hassasiyet : 0.01 mm
Standart Cırcır, Karbür Uç
Sadece 5–30 mm ve 25–50 mm Ölçüler
Halka Mastar İçerir

Sip. No	Ölçüm Aralığı	Sip. No	Ölçüm Aralığı
009432	0–25 mm		100–125 mm
009433	25–50 mm		125–150 mm
009434	50–75 mm		150–175 mm
009435	75–100 mm		175–200 mm



3520–Dijital İç Çap Mikrometresi

Hassasiyet : 0.01 mm / 0.00005"
Karbür Uçlu

Sadece 5-30 mm/0.1–1.2" ve 25-50 mm/1-2" Ölçüler Halka Mastar İçerir

Sip. No	Ölçüm Aralığı
009436	5–30 mm / 0.2–1.2"
009437	25–50 mm / 1–2"
009438	50–75 mm / 2–3"
009439	75–100 mm / 3–4"



3334–Pasometre

Hassasiyet : 0.001 mm
Gösterge Aralığı : ±0.04 mm
IP54

Sip. No	Ölçüm Aralığı
009440	0–25 mm
009441	25–50 mm
009442	50–75 mm
009443	75–100 mm



Sip. No
009444

6300–Mikrometre Ayağı



Sip. No
009445

6301–Mikrometre Ayağı



6312–Halka Mastar

İç Çap Mikrometreleri 3 Ayak Mikrometreleri ve Silindir Komparatörlerini Sıfırlamak İçin
DIN2250

Sip. No	Ölçü	Sip. No	Ölçü	Sip. No	Ölçü
009446	4 mm		20 mm		70 mm
009447	5 mm		25 mm		75 mm
009448	6 mm		30 mm		87 mm
009449	8 mm		40 mm		100 mm
009450	10 mm		50 mm		150 mm
009451	12 mm		62 mm		200 mm
009452	16 mm				

2112–Dijital Komparatör

Hassasiyet : 0.001 mm
Bilgi çıkışlı
CR2032 Pil, Otomatik kapanma



Sip. No	Ölçüm Aralığı
009453	12.7 mm
009454	25.4 mm
009455	50.8 mm

3127–Dijital 3 Ayaklı İç Çap Mikrometre

Hassasiyet : 0.001 mm / 0.00005"
Ölçüm Derinliği : 150 mm
Uzatma Çubuğu : 150 mm
Standart Halka Master
IP54 Koruma



3127 Set

Sip. No	Ölçüm Aralığı
009456	12–20 mm (2 Parça)
009457	20–50 mm (4 Parça)
009458	50–100 mm (4 Parça)

Sip. No	Ölçüm Aralığı	Ölçüm Derinliği
009459	12–16 mm	80 mm
009460	16–20 mm	80 mm
009461	20–25 mm	90 mm
009462	25–30 mm	90 mm
009463	30–40 mm	97 mm
009464	40–50 mm	97 mm
009465	50–63 mm	114 mm
009466	62–75 mm	114 mm
009467	75–88 mm	114 mm
009468	87–100 mm	114 mm

3127–Dijital 3 Ayaklı İç Çap Mikrometre

Hassasiyet : 0.001 mm
Ölçüm Derinliği : 53.5 mm
Uzatma Çubuğu : 100 mm
Standart Halka Master
IP54 Koruma

Sip. No	Ölçüm Aralığı
009469	6–8 mm
009470	8–10 mm
009471	10–12 mm

3127 Set

Sip. No	Ölçüm Aralığı
009472	6–12 mm (3 Parça)



3127–Dijital 3 Ayaklı İç Çap Mikrometre

Hassasiyet : 0.001 mm /
Ölçüm Derinliği : 0.00005"
Uzatma Çubuğu : 150 mm
150 mm

Standart Halka Master Opsiyonel
IP54 Koruma

Sip. No	Ölçüm Aralığı
009473	100–125 mm
009474	125–150 mm
009475	150–175 mm
009476	175–200 mm
009477	200–225 mm
009478	225–250 mm
009479	250–275 mm
009480	275–300 mm





Standart Model
Düz Kapaklı (Kulaklı Kapak Opsiyonel)

2308–Komparatör Saati

Ekran Çapı : 58 mm
Mil Çapı : 8 mm
DIN878

Sip. No	Ölçüm Aralığı	Hassasiyet
009481	0–3 mm	0.01 mm
009482	0–5 mm	0.01 mm
009483	0–10 mm	0.01 mm



2314–Komparatör Saati (Darbe Korumalı)

Ekran Çapı : 58 mm
Mil Çapı : 8 mm
DIN878

Sip. No	Ölçüm Aralığı	Hassasiyet
009484	0–3 mm	0.01 mm
009485	0–5 mm	0.01 mm
009486	0–10 mm	0.01 mm

Darbeye Karşı Dayanıklı

Düz Kapaklı
(Kulaklı Kapak Opsiyonel)



2313–Komparatör Saati (Darbe Korumalı)

Ekran Çapı : 58 mm
Mil Çapı : 8 mm
DIN878

Sip. No	Ölçüm Aralığı	Hassasiyet
009487	0–1 mm	0.001 mm
009488	0–2 mm	0.001 mm
009489	0–1 mm	0.001 mm
009490	0–2 mm	0.001 mm

Darbeye Karşı Dayanıklı

Düz Kapaklı
(Kulaklı Kapak Opsiyonel)



2311–Komparatör Saati

Ekran Çapı : 42 mm
Mil Çapı : 8 mm
DIN878

Sip. No	Ölçüm Aralığı	Hassasiyet
009491	0–3 mm	0.01 mm
009492	0–5 mm	0.01 mm

Düz Kapaklı
(Kulaklı Kapak Opsiyonel)



2310–Komparatör Saati

Ekran Çapı : 58 mm
Mil Çapı : 8 mm
DIN878

Sip. No	Ölçüm Aralığı	Hassasiyet
009493	0–20 mm	0.01 mm
009494	0–30 mm	0.01 mm

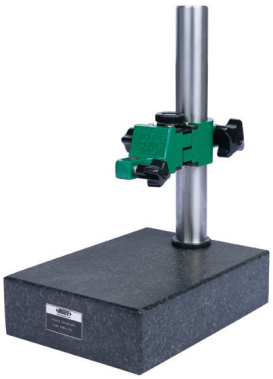
Düz Kapaklı
(Kulaklı Kapak Opsiyonel)



2309–Komparatör Saati

2309–30F Düz Kapaklı (Kulak Kapak Opsiyonel)
2309–50, 2309–80, 2309–10 Düz Kapaklı ve
Ayrıca Yedek Kulaklı Kapak İçerir

Sip. No	Ürün Kodu	Ölçüm Aralığı	Hassasiyet
009495	30F	0–1 mm	0.01 mm
009496	30	0–1 mm	0.01 mm
009497	50	0–1 mm	0.01 mm
009498	50D	0–1 mm	0.01 mm
009499	80	0–1 mm	0.01 mm
009500	80D	0–1 mm	0.01 mm
009501	100D	0–1 mm	0.01 mm



6866–Komparatör Ayağı (Granit Taban)

Kalite00
DIN878

Sip. No	Taban (mm)	Kolon (mm)
009502	200 x 150 x 54	Ø30x225



6208–Komparatör Ayağı

Toplam Uzunluk : 350 mm

Sip. No	Manyetik Gücü
009503	80 kgf



6201–Komparatör Ayağı

Hassas Ayarlanabilir

Sip. No	Manyetik Gücü
009504	60 kgf



6224–Komparatör Ayağı (Mini Tip)

Toplam Uzunluk : 350 mm
Hassas Ayarlanabilir

Sip. No	Manyetik Gücü
009505	40 kgf

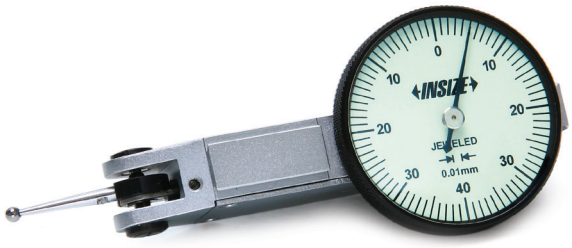


2896–Salgı Komparatörü (Uzun Problu)

Karbür Uç : Ø2 mm
Prob Uzunluğu : 36, 23 mm
İki adet tutucu Aparatı : Ø4 mm ve Ø8 mm

Sip. No	Ölçüm Aralığı	Hassasiyet	Ekran Çapı
009506	0–0.5 mm	0.01 mm	32 mm

Darbeye Karşı Dayanıklı



2380–Salgı Komparatörü

Karbür Uç : Ø2 mm
İki adet tutucu Aparatı : Ø4 mm ve Ø8 mm
DIN2270

Darbeye Karşı Dayanıklı

Sip. No	Ölçüm Aralığı	Hassasiyet	Ekran Çapı	Prob Uzunluğu
009507	0–0.8 mm	0.01 mm	30 mm	13.5 mm
009508	0–0.8 mm	0.01 mm	37 mm	13.5 mm
009509	0–0.2 mm	0.002 mm	32 mm	14.7 mm
009510	0–0.2 mm	0.002 mm	37 mm	14.7 mm



2361–Kalınlık Ölçme Komparatörü

Ekran Çapı : 40 mm

Sip. No	Ölçüm Aralığı	Hassasiyet
009511	0–10mm	0.1 mm



2861–Kalınlık Ölçme Komparatörü

Seramik Ölçüm Uçları : Ø10 mm
Ekran Çapı : 55 mm

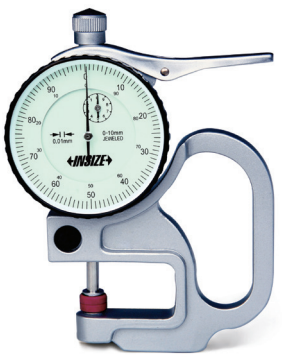
Sip. No	Ölçüm Aralığı	Hassasiyet
009512	0–10mm	0.1 mm



2871–Kalınlık Ölçme Komparatörü

Hassasiyet : 0.01mm/0.0005"
Seramik Ölç. Uçları : Ø10 mm
Boğaz Derinliği : 25 mm

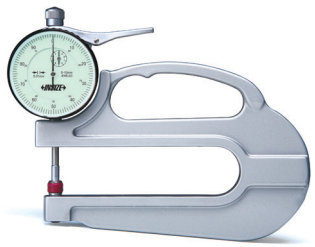
Sip. No	Ölçüm Aralığı
009513	0–10 mm/0.5"



2364–Kalınlık Ölçme Komparatörü

Düz Seramik Ölçüm Uçları : Ø10 mm
Boğaz Derinliği : 30 mm
Ekran Çapı : 58 mm

Sip. No	Ölçüm Aralığı	Hassasiyet
009514	0–10mm	0.01mm



2365–Kalınlık Ölçme Komparatörü

Düz Seramik Ölçüm Uçları : Ø10 mm
A–Düz Paslanmaz Çelik Uçlar : Ø10 mm
B–Üst Uç Küresel : Ø3 mm
Alt Uç Düz : Ø10 mm
C–Üst Uç Küresel : Ø3 mm
Alt Uç Küresel : Ø8 mm
Ekran Çapı : 58 mm

Sip. No	Ölçüm Aralığı	Hassasiyet
009515	0–10 mm	0.01 mm
009516	0–20 mm	0.01 mm

Döndürülebilir Ekran



2122–Dijital Silindir Komparatörü

Hassasiyet : 0.002 mm / 0.00005"
Sabit ve Hareketli Temas Nokları Seramiktir Sadece 6–10 mm / 0.24–0.4" Ölçüsünün Uçları Seramik Değildir, 10–18 mm / 0.4–0.7" ve 18–35 / 0.7–1.5" Ölçülerininde Sadece Sabit Uçları Seramiktir

Sip. No	Ölçüm Aralığı	Derinliği	Uç Tipi
009517	18–35 mm	150 mm	C
009518	35–60 mm	150 mm	D
009519	50–100 mm	150 mm	D
009520	50–160 mm	150 mm	D
009521	100–160 mm	150 mm	D
009522	160–250 mm	250 mm	D
009523	250–450 mm	250 mm	D



2824
Silindir Komparatörü (Set)

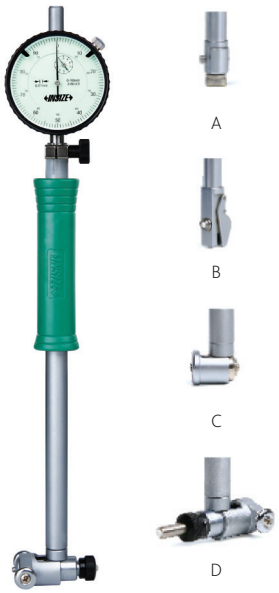
Hassasiyet 0.01mm / 0.0005"
Sabit ve Hareketli Temas Nokları Seramiktir. 18-35/0.7-1.5" Ölçüsünün Sadece Sabit Uçları Seramiktir

Sip. No	Ölçüm Aralığı
009524	18–160 mm (3 Parça)
009525	35–160 mm (2 Parça)

2322–Silindir Komparatörü

Hassasiyet : 0.01 mm (opsiyonel 0.001 mm)
Sabit ve Hareketli Temas Nokları Seramiktir.
Sadece 6–10 mm / 0.24–0.4" Ölçüsünün Uçları Seramik Değildir, 10–18 mm / 0.4–0.7" ve 18–35 / 0.7–1.5" Ölçülerininde Sadece Sabit Uçları Seramiktir

Sip. No	Ölçüm Aralığı	Derinliği	Uç Tipi
009526	18–35 mm	150 mm	C
009527	35–60 mm	150 mm	D
009528	50–100 mm	150 mm	D
009529	50–160 mm	150 mm	D
009530	100–160 mm	150 mm	D
009531	160–250 mm	400 mm	D
009532	250–450 mm	400 mm	D



2322–160



4100–Çelik Kontrol Mastarları

Kontrol Sertifikalı
ISO3650 Kalite0 (1 ve 2 Opsiyonel)

Sip. No	Toplam Adet	Ölçü (mm)	Boy Artması
009533	32 Adet	1.005	
		1.01–1.09	0.01
		1.1–1.9	0.1
		1–9	1
		10–30	10
		50	
009534	47 Adet	1.005	
		1.01–1.19	0.01
		1.2–1.9	0.1
		1–9	1
		10–100	10
009535	87 Adet	1.001–1.009	0.001
		1.01–1.49	0.01
		0.5–9.5	0.5
		10–100	10
009536	103 Adet	1.005	
		1.01–1.49	0.01
		0.5–24.5	0.5
		25–100	25



4799–Açı Ölçer

Ölçüm Aralığı : 1–180°
Hassasiyet Derecesi : 1°

Sip. No	Açı Ölçer Çapı	Bıçak Uzunluğu
009537	80 mm	120 mm
009538	120 mm	150 mm
009539	150 mm	200 mm
009540	200 mm	300 mm
009541	300 mm	500 mm



2333–Dış Çap Komparatörü

Hassasiyet : 0.01 mm
Küresel Uçlu (opsiyonel) : Ø1.5 mm

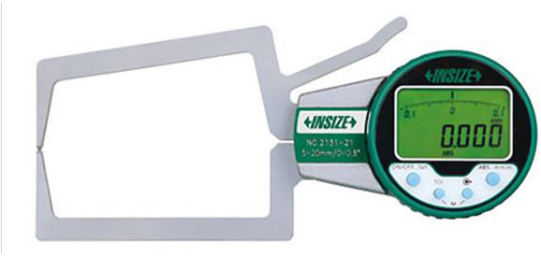
Sip. No	Ölçüm Aralığı	Kol Uzunluğu	Uç Yüksekliği	Uç Radüsü
009542	0–20 mm	80 mm	25 mm	0.75 mm
009543	10–30 mm	80 mm	25 mm	0.75 mm
009544	20–40 mm	80 mm	25 mm	0.75 mm
009545	30–50 mm	80 mm	25 mm	0.75 mm
009546	40–60 mm	80 mm	25 mm	0.75 mm



2222–İç Çap Komparatörü

Hassasiyet : 0.01 mm
Küresel Uçlu (opsiyonel) : Ø1.5 mm

Sip. No	Ölçüm Aralığı	Kol Uzunluğu	Uç Yüksekliği	Uç Radüsü
009547	5–15 mm	20 mm	1.5 mm	0.3 mm
009548	5–25 mm	25 mm	1.5 mm	0.3 mm
009549	10–30 mm	55 mm	3.5 mm	0.5 mm
009550	20–40 mm	80 mm	6.5 mm	0.5 mm
009551	30–50 mm	80 mm	8.5 mm	0.5 mm
009552	40–60 mm	80 mm	8.5 mm	0.5 mm



2131–Dijital Dış Çap Komparatörü

Hassasiyet : 0.01 mm / 0.0005"
Küresel Uçlu (opsiyonel) : Ø1.5 mm

Sip. No	Ölçüm Aralığı	Kol Uzunluğu	Uç Yüksekliği	Uç Radüsü
009553	0-20 mm / 0-0.8"	80 mm	25 mm	0.75 mm
009554	10-30 mm / 0.4-1.2"	80 mm	25 mm	0.75 mm
009555	20-40 mm / 0.8-1.6"	80 mm	25 mm	0.75 mm
009556	30-50 mm / 1.2-2.0"	80 mm	25 mm	0.75 mm
009557	40-60 mm / 1.6-2.4"	80 mm	25 mm	0.75 mm



2121–Dijital İç Çap Komparatörü

Hassasiyet : 0.01 mm / 0.0005"
Küresel Uçlu (opsiyonel) : Ø1.5 mm

Sip. No	Ölçüm Aralığı	Kol Uzunluğu	Uç Yüksekliği	Uç Radüsü
009558	5-15 mm / 0.2-0.6"	20 mm	1.5 mm	0.3 mm
009559	5-25 mm / 0.2-1.0"	25 mm	1.5 mm	0.3 mm
009560	10-30 mm / 0.4-1.8"	55 mm	3.5 mm	0.5 mm
009561	20-40 mm / 0.8-1.6"	80 mm	6.5 mm	0.5 mm
009562	30-50 mm / 1.2-2.0"	80 mm	8.5 mm	0.5 mm
009563	40-60 mm / 1.6-2.4"	80 mm	8.5 mm	0.5 mm

2372–Mercekli Açı Ölçer

Hassasiyet : 5'
Paralaksız Okuma Kolaylığı : 150 mm ve 300 mm
İki Adet Ölçüm Cetveli :
Mercekli ve Bağlantı Aparatlı
Yükseklik Mihengirleri İçin Tutucu Opsiyonel

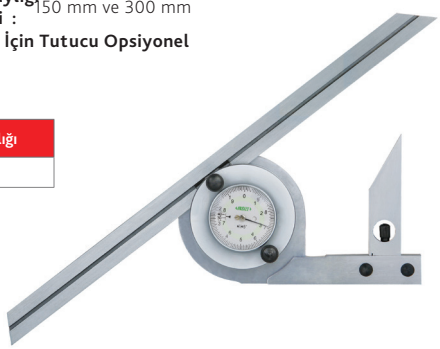
Sip. No	Ölçüm Aralığı
009564	0–360°



2373–Saatli Açı Ölçer

Hassasiyet : 5'
Paralaksız Okuma Kolaylığı : 150 mm ve 300 mm
İki Adet Ölçüm Cetveli :
Yükseklik Mihengirleri İçin Tutucu Opsiyonel

Sip. No	Ölçüm Aralığı
009565	0–360°





Sip. No	Ölçüm Aralığı
009566	50 x 40 mm
009567	75 x 50 mm
009568	100 x 70 mm
009569	150 x 100 mm
009570	200 x 130 mm
009571	250 x 165 mm
009572	300 x 200 mm

4790–90° Kıl Gönye

Paslanmaz Sert Çelik Malzeme
Krom Kaplama
DIN875 Kalite 00 (Kalite 0 ve 1 opsiyonel)



Sip. No	Ölçüm Aralığı
009573	50 x 40 mm
009574	75 x 50 mm
009575	100 x 70 mm
009576	150 x 100 mm
009577	200 x 130 mm
009578	250 x 165 mm
009579	300 x 200 mm

4791–90° Düz Gönye

Paslanmaz Sert Çelik Malzeme
DIN875 Kalite 0



Sip. No	Ölçüm Aralığı
009580	50 x 40 mm
009581	75 x 50 mm
009582	100 x 70 mm
009583	150 x 100 mm
009584	200 x 130 mm

4792–90° Düz Gönye (Geniş Tabanlı)

Paslanmaz Sert Çelik Malzeme
DIN875 Kalite 0



Sip. No	Ölçüm Aralığı
009585	50 x 40 mm
009586	75 x 50 mm
009587	100 x 70 mm
009588	150 x 100 mm
009589	200 x 130 mm
009590	250 x 165 mm
009591	300 x 200 mm

4793–90° Geniş Tabanlı Şapkalı Gönye

Paslanmaz Sert Çelik Malzeme
DIN875 Kalite 0



7261–Ayarlı İç Çap Pergeli

Sip. No	Ölçüm Aralığı
009592	20–170 mm
009593	22–220 mm
009594	30–270 mm
009595	30–320 mm



7260–Ayarlı Düz Pergel

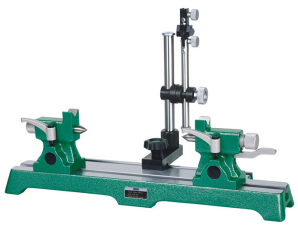
Sip. No	Ölçüm Aralığı
009596	0–150 mm
009597	0–210 mm
009598	0–260 mm
009599	0–320 mm



6562–Mekanik Prob

Hassasiyet : 0.005 mm

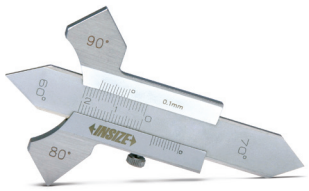
Sip. No	Şaft	Temas Noktası
009600	Ø10 mm	Ø10 mm
009601	Ø10 mm	Ø4 mm



4782–İki Punta Arası Salgı Ölçme Aleti

Sip. No	Çalışma Aralığı	Toplam Uzunluk
009602	300 mm	550 mm

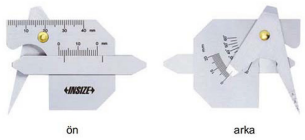
HOFFEN Cutting Tools



4830–Kaynakçı Kumpası

Hassasiyet : 0.1 mm / 1 / 128"
Açılar : 60°, 70°, 80°, 90°

Sip. No	Ölçüm Aralığı
009603	0–20 mm



6832–Kombinasyonlu Kaynakçı Kumpası

Sip. No
009604



2179–Dijital Açı Ölçer ve Terazi

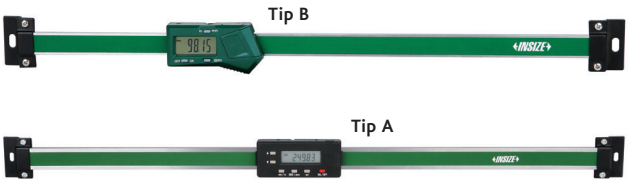
Hem Açı Ölçer Hem Terazi Olarak Kullanım , 4 Çalışma Yüzeyi

Sip. No	Ölçüm Aralığı	Hassasiyet
009605	0–360° (4x90°)	0.1°



2385–Komparatör Saatli Freze Merkezleme Aparatı

Sip. No	Ölçüm Aralığı	Hassasiyet
009606	0–3 mm	0.01 mm



7101–Dijital Takılabilen Kumpas (Yatay Tip)

Hassasiyet : 0.01 mm / 0.0005"
İki Taraftan Monte Edilebilir
Bilgi Çıkışı

Sip. No	Ölçüm Aralığı	Tipi
009607	100 mm / 4"	A
009608	150 mm / 6"	A
009609	200 mm / 8"	A
009610	300 mm / 12"	A
009611	400 mm / 16"	B
009612	500 mm / 20"	B
009613	600 mm / 24"	B
009614	800 mm / 32"	B
009615	900 mm / 36"	B
009616	1000 mm / 40"	B

7102–Dijital Takılabilen Kumpas (Dikey Tip)

Hassasiyet : 0.01 mm / 0.0005"
İki Taraftan Monte Edilebilir
Bilgi Çıkışı

Sip. No	Ölçüm Aralığı
009617	100 mm / 4"
009618	150 mm / 6"
009619	200 mm / 8"
009620	300 mm / 12"
009621	400 mm / 16"
009622	500 mm / 20"
009623	600 mm / 24"
009624	800 mm / 32"
009625	900 mm / 36"
009626	1000 mm / 40"



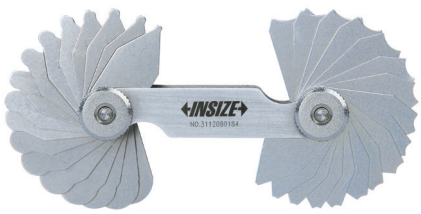


4602–Filler Çakısı

Yaprak Uzunluğu : 100 mm

Metrik / İnç

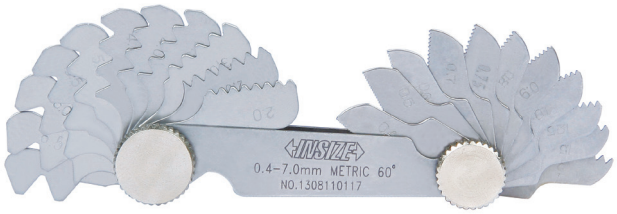
Sip. No	Yaprak Sayısı	Yaprak Ölçüsü
009627	13	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00 mm
009628	17	0.02, 0.03, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00 mm
009629	20	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00 mm
009630	32	0.03, 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, 0.38, 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 mm



4801–Radüs Mastarı

Yaprak Uzunluğu : 100 mm

Sip. No	Yaprak Sayısı	Yaprak Ölçüsü
009631	17 konkav yaprak 17 konveks yaprak	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 mm
009632	16 konkav yaprak 16 konveks yaprak	7.5, 8, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15 mm
009633	15 konkav yaprak 15 konveks yaprak	15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 21, 22, 23, 24, 25 mm



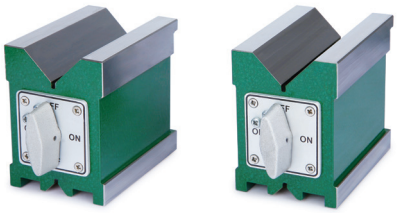
4820–Diş Mastarı

Sip. No	Yaprak Sayısı	Yaprak Ölçüsü
009634	METRIK 60° 22 Yaprak	0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1.0, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7 mm
009635	METRIK 60° 24 Yaprak	0.25, 0.3, 0.35, 0.4, 0.5, 0.70, 0.75, 0.8, 0.9, 1, 1.25, 1.5 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7 mm
009636	WHITWORTH 55° 28 Yaprak	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 22, 24 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI
	METRIK 60° 24 Yaprak	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1 1.15, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6 mm



7111–Çelik Mastar

Sip. No	Ölçü	Ebat
009637	300 mm	40 x 5 mm
009638	500 mm	40 x 5 mm
009639	1000 mm	40 x 5 mm



6889–Manyetik V Blok

Manyetik Kuvveti : 100 mm
Hassasiyet : 0.02mm/100mm

Sip. No	Metrik Ölçü	Kapasite (Çap)
009640	75 x 56 x 75 mm	5–40 mm
009641	100 x 70 x 95 mm	5–65 mm
009642	150 x 75 x 100 mm	5–70 mm
009643	200 x 124 x 150 mm	10–140 mm



6896–Çelik V Blok

Çift Olarak Tedarik Edilir

Sip. No	Boyut (LxWxH)	Mil Aralığı Ød	Hassasiyet
009644	25 x 20 x 20 mm	3–20 mm	3µm
009645	50 x 40 x 40 mm	5–30 mm	5µm
009646	80 x 63 x 63 mm	7–63 mm	5µm
009647	100 x 80 x 80 mm	7–80 mm	5µm
009648	70 x 140 x 140 mm	9–140 mm	5µm



5013–13 Parça Ölçüm Seti

İçindekiler

* Dijital Kumpas, Ölçüm Aralığı 0-150 mm/0.6", Hassasiyeti 0.01 mm /0.005", Kodu 1112-150
* Dış Çap Mikrometresi, Ölçüm Aralığı 0-25 mm, hassasiyeti 0.01 mm, Kodu 3202-25
* Komparatör Saati, Ölçüm Aralığı 0-10 mm, Hassasiyeti 0.01, Kodu 2308-10
* Manyetik Komparatör Ayağı, Manyetik Gücü 60 kgf, Kodu 6201-60
*Açı Ölçer, Ölçüm Aralığı 0-180°, Hassasiyet Derecesi 1°, Kodu 4799-180
* Diş Mastarı, Ölçüm Aralığı 0.25-7 mm, 24 Parça, Metrik 60°, Kodu 4820-124
* Radüs Mastarı, Ölçüm Aralığı 1-7 mm, Kodu 4801-17
* Filler Çakısı, Ölçüm Aralığı 0.05-1.00 mm 20 Yaprak, Kodu 4602-20
* 90° Kıl Gönye, 100 x 70 mm, Kodu 4790-0100
* Metal Çizecek, Uzunluk 230 mm/9.1", Kodu 7230
* Derinlik Ölçüm Ayağı, Kodu 6140
* Sıfırlama Mastarı
* Çelik Cetvel, 0-150 mm/0-6", Kodu 7110-150

Sip. No
009649



4120–Metrik Halka Vida Mastarı

Tolerans 6g (6e ve 8g opsiyonel)
Standart DIN13 yada ISO1502-96
Standart Olmayan Dişler Talep Üzerine Yapılabilir

Sip. No (GO)	Sip. No (NOGO)	Ölçü	Standart Diş
009650	4120-2N	M2.0	0.40 mm
009651	4120-2D2N	M2.2	0.45 mm
009652	4120-2D5N	M2.5	0.45 mm
009653	4120-3N	M3.0	0.50 mm
009654	4120-4N	M3.5	0.60 mm
009655	4120-5N	M4.0	0.70 mm
009656	4120-6N	M5.0	0.80 mm
009657	4120-8N	M6.0	1.00 mm
009658	4120-10N	M8.0	1.25 mm

Sip. No (GO)	Sip. No (NOGO)	Ölçü	Standart Diş
009659	4120-12N	M10.0	1.50 mm
009660	4120-14N	M12.0	1.75 mm
009661	4120-16N	M14.0	2.00 mm
009662	4120-18N	M16.0	2.00 mm
009663	4120-20N	M18.0	2.50 mm
009664	4120-20N	M20.0	2.50 mm
009665	4120-22N	M22.0	2.50 mm
009666	4120-24N	M24.0	3.00 mm
009667	4120-27N	M27.0	3.00 mm

Sip. No (GO)	Sip. No (NOGO)	Ölçü	Standart Diş
009668	4120-30N	M30.0	3.50 mm
009669	4120-33N	M33.0	3.50 mm
009670	4120-36N	M36.0	4.00 mm
009671	4120-39N	M39.0	4.00 mm
009672	4120-42N	M42.0	4.50 mm
009673	4120-45N	M45.0	4.50 mm
009674	4120-48N	M48.0	5.00 mm
009675	4120-52N	M52.0	5.00 mm
009676	4120-56N	M56.0	5.50 mm



4130–Metrik Vida Mastarı

Geçer ve geçmez mastarlar birlikte tedarik edilir.
H6 kalite
ISO1502 standardına uygundur.

Sip. No	Boyut
009677	M2 x 0.4 mm
009678	M2.2 x 0.45 mm
009679	M2.5 x 0.45 mm
009680	M3 x 0.5 mm
009681	M3.5 x 0.6 mm

Sip. No	Boyut
009682	M4 x 0.7 mm
009683	M5 x 0.8 mm
009684	M6 x 1 mm
009685	M7 x 1 mm
009686	M8 x 1.25 mm

Sip. No	Boyut
009687	M9 x 1.25 mm
009688	M10 x 1.5 mm
009689	M11 x 1.5 mm
009690	M12 x 1.75 mm
009691	M14 x 2 mm

Sip. No	Boyut
009692	M16 x 2 mm
009693	M18 x 2.5 mm
009694	M20 x 2.5 mm
009695	M22 x 2.5 mm
009696	M23 x 3 mm

Sip. No	Boyut
009697	M27 x 3 mm
009698	M30 x 3.5 mm
009699	M33 x 3.5 mm
009700	M36 x 4 mm
009701	M39 x 4 mm

Sip. No	Boyut
009702	M42 x 4.5 mm
009703	M45 x 4.5 mm
009704	M48 x 5 mm
009705	M52 x 5 mm
009706	M56 x 5.5 mm
009707	M60 x 5.5 mm



Servo Elektrikli Otomatik KIlavuz Çekme Makinesi

Özellikler

Kapasite : M3-M16 / M5-M36
Kontrol paneli : Elektronik Düğme
Dokunma açısı : Evrensel
Çalışma Yarıçapı : 750W
Azaltma Oranı : 1:16
Voltaj : 220V

Türkçe sistemi ile M3-M16 / M5-M36 dokunmatik ekran evrensel yön, evrensel kafa ayarlanabilir, dikey aşağı dokunarak veya yatay dokunarak.

Sip. No	Kapasite
009708	M3–M16
009709	M5–M36











Manyetik Tabla PSP



Sip. No	Tabla Ölçüsü	Kutup Sayısı	Ağırlık	Kontrol Ünitesi	Sıkma Kuvveti
009710	340 x 360 x 55 mm	20	50 kgs	CUA	70 kN
009711	360 x 490 x 55 mm	30	72 kgs	CUA	100 kN
009712	360 x 640 x 55 mm	40	95 kgs	CUA	140 kN

Manyetik Kaldıraç PLM



Sip. No	Kaldırma Kapasitesi	Özellik
009713	300 kg	**Kompakt ve hafif Güvenli çalışma En az 3 güvenlik faktörü Düz ve yuvarlak malzeme için uygun Bakım gerektirmeyen tasarım Güvenlik cihazı yanlışlıkla devre dışı bırakmaz Sadece bir el ile kapatılabilir**
009714	600 kg	
009715	1000 kg	
009716	1500 kg	
009717	2000 kg	
009718	3000 kg	

Freze Bileme ve Kesme Makinası YEC–220



Sip. No	Bileme Çapı	Bileme Açısı	Takım	Özellik	R.P.M	Ağırlık	Güç
009719	Ø3 ~ Ø20	0° ~ 3°	Parmak Freze 2, 3, 4, 6 Ağızlı	Tek Makina ile HSS ve Karbür Bileme	6000 RPM	15 kg	AC110/AC220V 50/60 HZ

Matkap Bileme Makinası YD–232



Sip. No	Bileme Çapı	Bileme Açısı	Takım	Özellik	R.P.M	Ağırlık	Güç
009720	Ø2 ~ Ø32	90° ~ 140°	Punta Matkabı Matkap Ucu	Açılı Bileme Formlu	6000 RPM	24 kg	AC110/AC220V 50/60 HZ

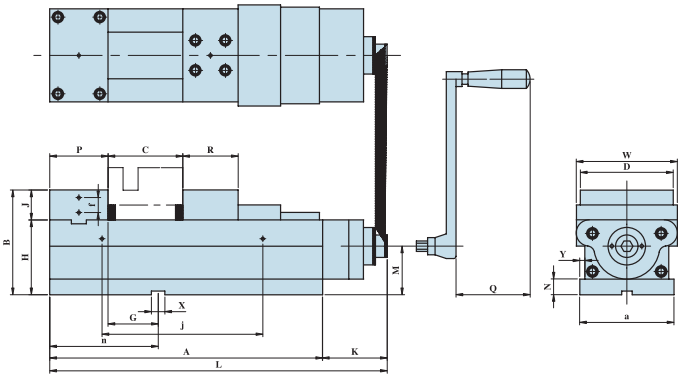
Matkap ve Freze Bileme Makinası Yed–220



Sip. No	Bileme Çapı	Bileme Açısı	Takım	Özellik	R.P.M	Ağırlık	Güç
009721	Ø2 ~ Ø20 Matkap Ø3 ~ Ø20 Freze	0° ~ 5° Matkap 90° ~ 140° Freze	Matkap Ucu Punta Matkabı Freze Z:2,3,4,6	Matkap ve Freze Bileme	6000 RPM	15 kg	AC110/AC220V 50/60 HZ

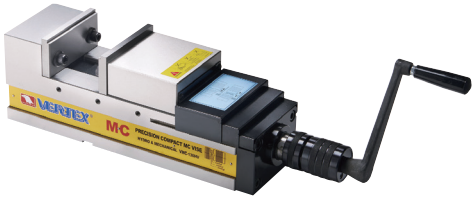




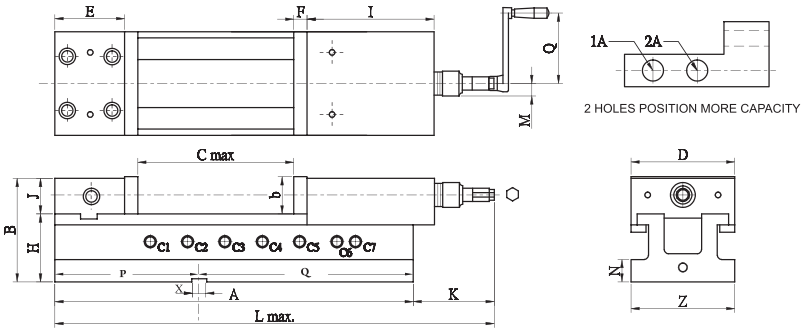


VQC–Mekanik MC CNC Mengene

Sip. No	A	B	C	D	P	R	G	H	L	KG
009722	536	160	355	160	86	86	58	115	634	78.4
009723	616	180	405	200	102	98	74	110	711	108

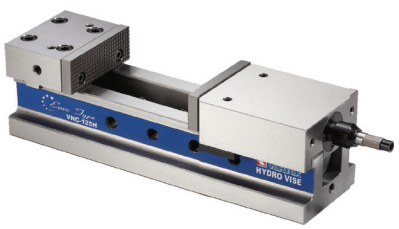


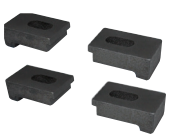


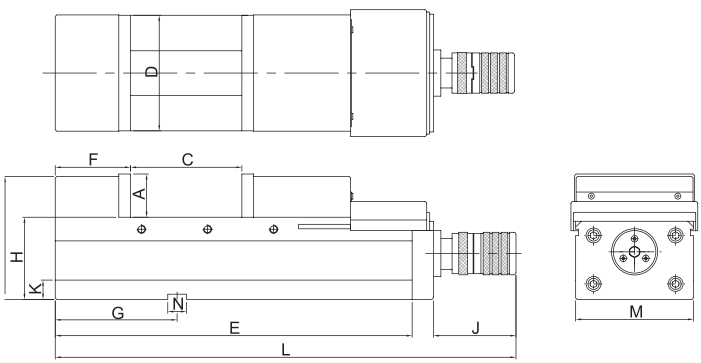


VNC–Hidro Makine Mengenesi

Sip. No	Maks. Açılım C	Kapama Gücü Kg	L	A	B	D	E	F	b	H	J	N	l	Z	Kg
009724	225	4000	556	432	126	124.6	85	15	45	82	44	27	147	125	32
009725	309	5000	684	550	159.6	148	102	18	54	95	53	27	189	160	59
009726	509	5000	884		159.6	148	102	18	54	95	53	27	189		76



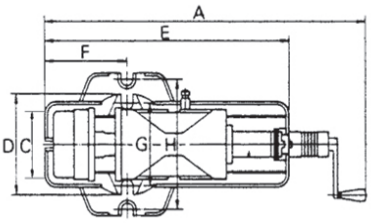


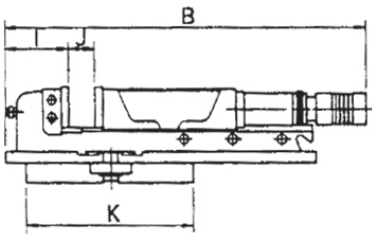


VMC–Hassas Hidrolik Mengene (CNC)

Sip. No	A	B	C	D	E	F	G	H	I	J1	J2	J3	J4	Kg	Sıkma Kuvveti
009727	131	405	535	95	55	85	150	23	18	180	240	290	380	40 Kg	5000 Kgf
009728	161	495	625	105	58	103	165	23	18	240	320	360	470	58 Kg	6500 Kgf
009729	201	570	700	110	63	108	190	23	18	280	360	420	540	87 Kg	8000 Kgf



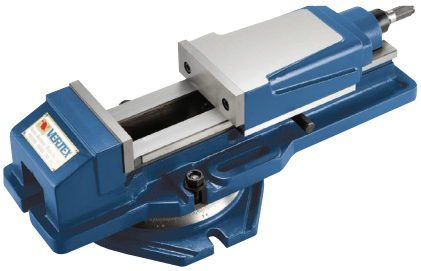


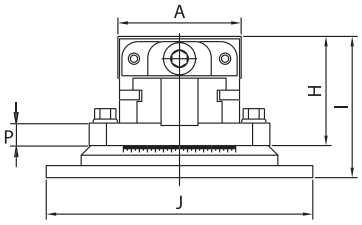


VHO–Kademeli Hidrolik Mengene

Sip. No	L	W	H	Açma Mesafesi	Kg	Sıkma Kuvveti
009730	750	160	179	0–300 mm	58	4000 Kgf

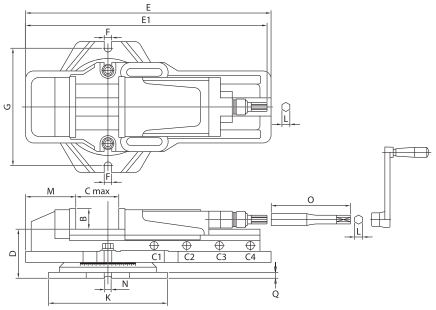




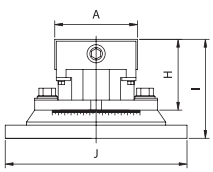


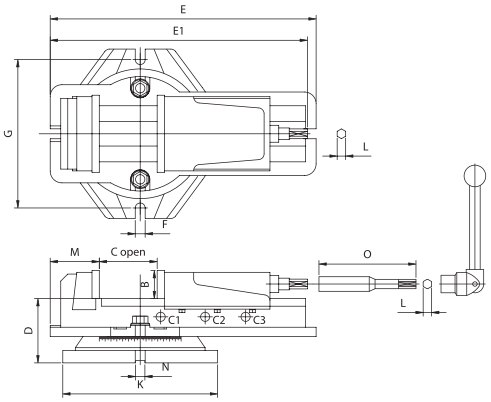
VH–Hidrolik Freze Mengenesi

Sip. No	A	B	C	a	D	E	F	G	H	Maksimum Sıkma Kuvveti	Kg
009731	105	36	170	525	440	170	95	58	95	3750 Kg	27.2
009732	130	48	210	670	550	207	120	70.5	107	4500 Kg	47.4
009733	150	53	300	800	620	225	135	82.5	117	5250 Kg	63
009734	200	62	300	900	680	280	162	100	150	6000 Kg	106.6





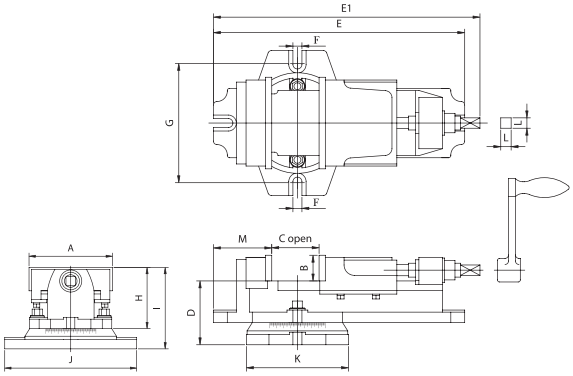




VJ -Uzun Tip Süper Open Mengene

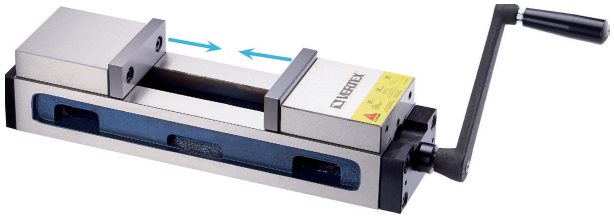
Sip. No	A	B	C Açılım	D	E	F	G	H	I	J	K	L	Maksimum Kapanma Gücü	Kg
009735	110	37	180	522	440	133	168	94	58	80	97	150	1500 Kg	24.8
009736	130	48	230	580	455	168	192	114	65	97	75	157	1500 Kg	33.4
009737	154	54	300	695	540	186	200	131	78	116	90	182	1500 Kg	46.1

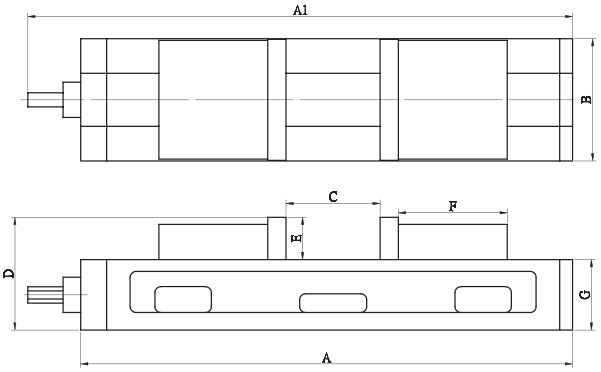




VK–Tipi Freze Mengenesi

Sip. No	A	A1	B	C	C1	D	E	F	G	N1	Q	S	U	Maksimum Kapama	Kg
009738	208	310	104	62	84	114	10	36	14	123	12	15	68	900 Kg	10
009739	350	380	131	85	98	130	10	36	15	148	14	15	80	900 Kg	16.6
009740	418	470	152	112	112	148	10	42	17	182	14	15.5	90	1000 Kg	27.8
009741	548	609	204	150	150	191	12.5	62	20	233	20	21	120	1400 Kg	56

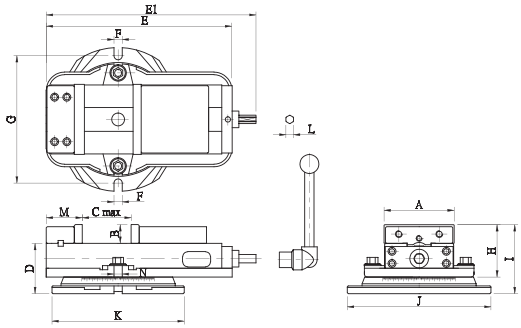




VCV–Çift Çene Hareketli Mengene

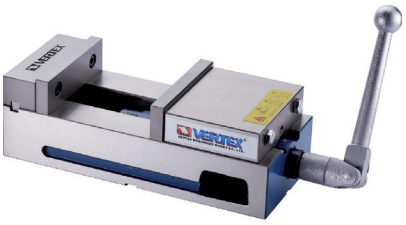
Sip. No	A	A1	B	C	D	E	F	G	Kg
009742	415	462	102	195	95	30	102	60	17.7

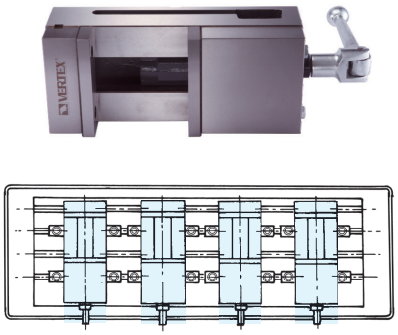


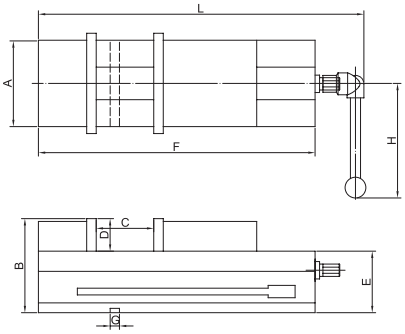


VA- VD Freze Mengenesi

Sip. No	A	B	C	a	k	c	d	e	f	Maksimum Kapama Gücü	Brüt Ağırlık	
											Tablasız	Tablalı
009743	102	36	103	325	165	96	243	31	6	1500 kg	16 36	(K) 20.4
009744	131	36	110	357	193	101	278	32	7	2000 kg	25 55	(K) 29.7
009745	152	46	142	418	209	119	328	39	9	2500 kg	36 80	(K) 42.6
009746	200	62	197	548	295	147	416	45	11	3000 kg	70 155	(T) 80.8
009747	152	38	190	552	295	134	381	47	11	-	37 82	(K) 45.6
009748	200	64	260	510	245	156	370	47	-	-	72 155	(T) 71.6

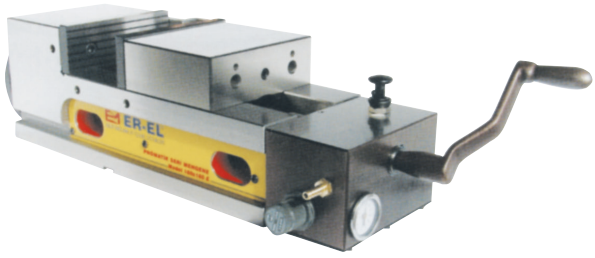


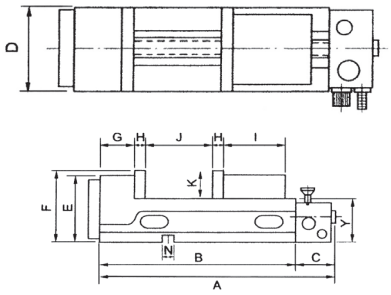




VMC–Taşlanmış Tezgah Mengenesi

Sip. No	Çene Ölçüsü	Mengene Boyu	Mengene Yüksekliği	Çene yüksekliği	Maksimum Açılım	Kg
009749	108	285	100	37	100	14
009750	156	368	120	46	142	31



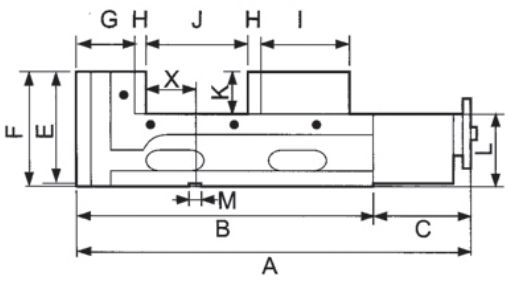


PM–Pnömatik Mengene

Pnömatik mengene 2000 Kgf sıkma kuvveti ile işlenecek malzemeden 4–5 mm paso kaldırabilmektedir. Zaman kaybetmeksizin işlenecek malzemeler değiştirilebilir. Birinci çene ile 160 mm geze çene arkasına bağlanan ikinci çene ile 300 mm iş parçası bağlanır.

Sip. No	A	B	C	D	E	F	G	H	I	J	K	N	Y	Kg
009751	530	430	100	161	160	163	120	15	130	160	58	18	105	55

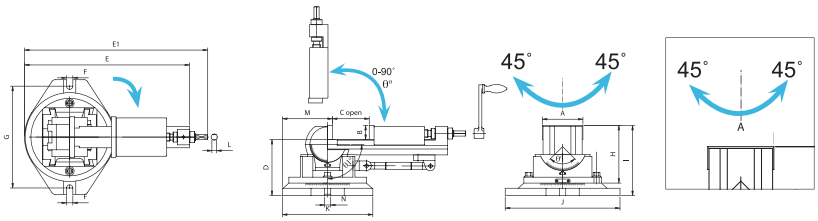




VMC–Pnömatik Mengene

Sip. No	A	B	a	D	E	F	G	H	I	C	K	L	M	X	Kapanma Gücü	Kg
009752	630	490	140	160	160	163	86	15	120	0–250	58	105	18	45	6000	51

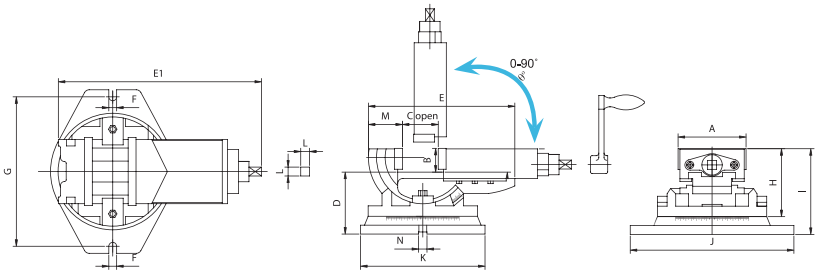




VW–3 Açılı Freze Mengenesi

Sip. No	A	B	C Açılım	D	E	F	G	H	I	Toplam Yükseklik	Maksimum Kapanma Gücü	Kg
009753	81	30	80	127	14	400	185	240	210	475	1500 Kg	16.7
009754	110	37	116	145	16	535	238	317	280	595	1500 Kg	32.7
009755	135	37	145	167	18	620	270	357	327	690	1500 Kg	49.4

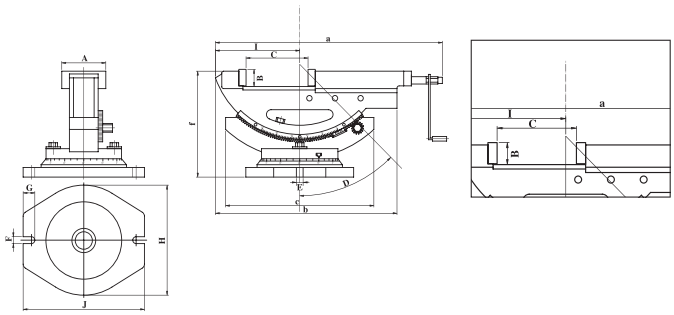




VWT–2 Açılı Freze Mengenesi

Sip. No	Çene		Maksimum Açılım	Malzeme Yuvası	Yükseklik	E x B x Y Toplam	Maksimum Kapanma Gücü	Kg	Paket Ölçüleri
	En	Yükseklik							
009756	125	46	100	16	160 mm	410 x 315 x 160	900 Kg	31.7	432 x 330 x 190
009757	160	51	120	16	195 mm	430 x 320 x 195	1600 Kg	47	510 x 365 x 240

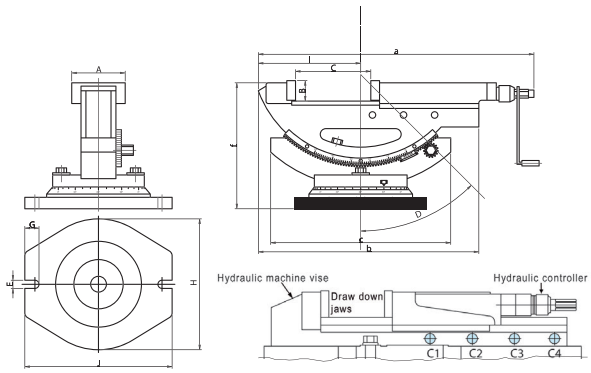




VWT–2 Açılı Makina Mengenesi

Sip. No	A	B	C Açılım	D	E	F	G	H	J	a	b	c	f	Maksimum Kapanma Gücü	Kg
009758	110	36	220	50	15	15	26	240	270	500	404	335	230	1200 Kg	(T) 33.3
009759	154	54	350	50	20	19	28	300	330	800	585	415	290	1600 Kg	(T) 88





VHT–2 Açılı Hidrolik Makina Mengenesi

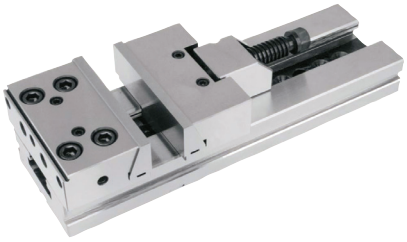
Sip. No	A	B	C Açılım	D	E	F	G	H	J	a	b	c	f	Maksimum Kapanma Gücü	Kg
009760	110	36	220	50	15	15	26	240	270	500	404	335	230	2500 Kg	(T) 33.3
009761	154	54	350	50	20	19	28	300	330	800	585	415	290	4500 Kg	(T) 88

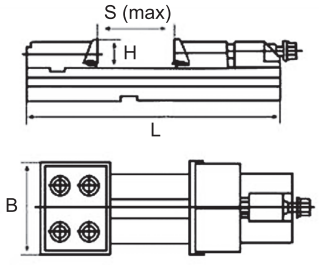
MHT–Süper Hassas Mengene (CNC)

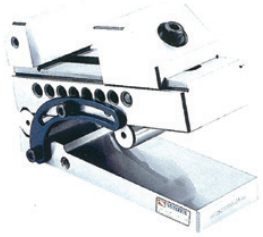
Hareketli çene hızlı ayarlanabilir ve kolay kullanılır.
CNC işleme merkezlerinde ve diğer hassas tezgahlarda kullanılır.

Paralellik tölerans 0.005 / 100 mm
Çalışma yüzeyleri 58–62 HRC sertlik

Sip. No	B	H	S (Maks.)	L	Sıkma Kuvveti	Ağırlık
009762	125 mm	40 mm	150 mm	345 mm	3000	12.7
009763	150 mm	50 mm	200 mm	420 mm	5000	25.6
009764	150 mm	50 mm	300 mm	520 mm	5000	29.5
009765	175 mm	60 mm	200 mm	455 mm	6000	33.8
009766	175 mm	60 mm	300 mm	555 mm	6000	42.5
009767	200 mm	65 mm	300 mm	595 mm	10000	64.0
009768	200 mm	65 mm	400 mm	695 mm	10000	74.0
009769	200 mm	65 mm	500 mm	795 mm	10000	78.0
009770	200 mm	65 mm	600 mm	895 mm	10000	85.0
009771	300 mm	80 mm	400 mm	735 mm	120000	100.0
009772	300 mm	80 mm	500 mm	835 mm	120000	120.0





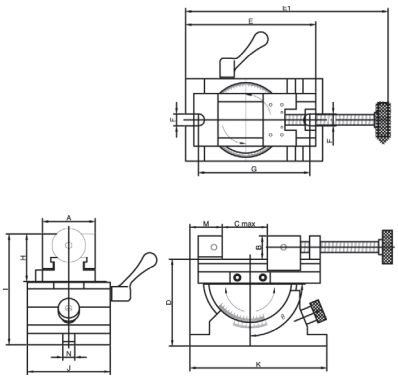


SVB–Sinüs Mengenesi

Sip. No	Malzeme	Boy	En	Çene Açılımı	Çene Yüksekliği	Yükseklik
009773	SK 2	155	48	80	30	93.5
009774	SK 2	175	63	90	35	102.5
009775	SK 2	180	73	90	35	103.8

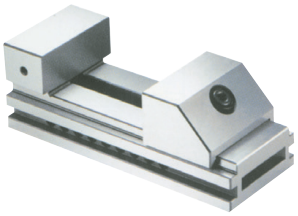
Sip. No	Açı	Sertlik	Kg
009776	0°–46°	HRC56°–58°	4.4
009777	0°–46°	HRC56°–58°	6
009778	0°–46°	HRC56°–58°	6.9





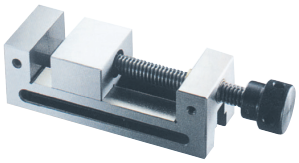
VUA–Hassas Universal Açılı Mengene

Sip. No	A	B	C	D	E	F	G	H	I	J	K	L
009779	70	85	30	146	162	32	32	45	110	63	83	182
009780	88	108	35	166	200	32	36	65	110	67	99	182



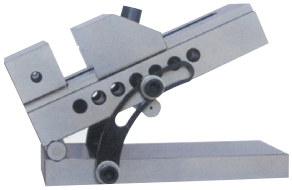
PHM–Pimli Hassas Mengene

Sip. No	Çene Genişliği	Açma Mesafesi
009781	50 mm	65 mm
009782	80 mm	100 mm
009783	100 mm	125 mm
009784	125 mm	160 mm



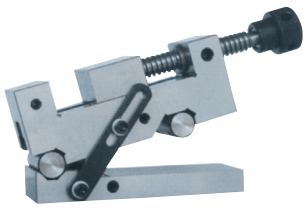
VHM–Vidalı Hassas Mengene

Sip. No	Çene Genişliği	Açma Mesafesi
009785	50 mm	65 mm
009786	80 mm	100 mm
009787	100 mm	125 mm
009788	125 mm	160 mm



APHM–Açılı Pimli Hassas Mengene

Sip. No	Çene Genişliği	Açma Mesafesi
009789	50 mm	65 mm
009790	80 mm	100 mm
009791	100 mm	125 mm
009792	125 mm	160 mm



AVHM–Açılı Vidalı Hassas Mengene

Sip. No	Çene Genişliği	Açma Mesafesi
009793	50 mm	65 mm
009794	80 mm	100 mm
009795	100 mm	125 mm
009796	125 mm	160 mm



MİCRO–D



MİCRO–S

Sip. No		009797	009798	009799
Sport Tipi		MİCRO (SP)	MİCRO 1 (TY)	MİCRO 2 (TY)
Tabla Ölçüleri	mm	190 x 125	230 x 145	320 x 145
İş Tabla Yüksekliği	mm	105	100	100
X ve Y Eksenleri Hareketi	mm	115 x 100	160	260
T Kanal Sayısı	mm	3	3	3
T Kanal Genişliği	mm	9 x 19	9 x 19	9 x 19
1 Tambur Turu	mm	2.5	2.5	2.5
Min. Tambur Bölüntüsü	mm	0.05	0.025	0.025



MİCRO–TY



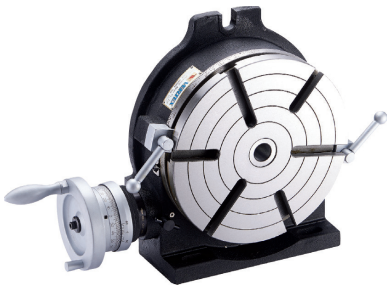
MİCRO–SP

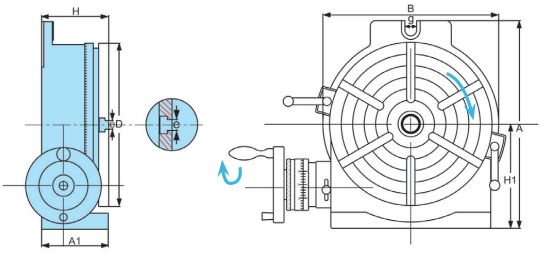
Sip. No		009800	009801	009802	009803
Sport Tipi		MİCRO (D)	MİCRO 1 (S)	MİCRO 2 (D)	MİCRO 2 (S)
Tabla Ölçüleri	mm	230 x 145	230 x 145	320 x 145	320 x 145
İş Tabla Yüksekliği	mm	155	125	155	125
X ve Y Eksenleri Hareketi	mm	160 x 120	160 x 120	260 x 120	260 x 105
T Kanal Sayısı	mm	3	3	3	3
T Kanal Genişliği	mm	9 x 19	9 x 19	9 x 19	9 x 19
1 Tambur Turu	mm	2.5	2.5	2.5	2.5
Min. Tambur Bölüntüsü	mm	0.025	0.025	0.025	0.025



S TİPİ

Sip. No		009804	009805	009806	009807	009808	009809
Sport Tipi		S1	S2	S3	S4	S5	S6
Tabla Ölçüleri	mm	360 x 210	435 x 245	520 x 275	610 x 275	705 x 280	1000 x 325
İş Tabla Yüksekliği	mm	180	200	220	220	215	235
X ve Y Eksenleri Hareketi	mm	210 x 160	260 x 170	335 x 265	425 x 265	435 x 275	700 x 235
T Kanal Sayısı	mm	2	3	3	3	3	5
T Kanal Genişliği	mm	12 x 22	12 x 22	12 x 22	12 x 22	12 x 22	12 x 22
1 Tambur Turu	mm	4	4	4	4	4	5
Min. Tambur Bölüntüsü	mm	0.05	0.05	0.05	0.05	0.05	0.05

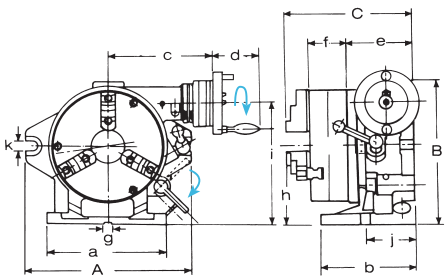




HV–Döner Tabla

Sip. No	D	H	A	B	K	Mors Tipi	Rediksiyon Orantısı	Kg
009810	150	80	205	167	17	MT–2	90 : 1	12.5
009811	200	105	265	220	17	MT–3	90 : 1	31
009812	250	115	325	280	17	MT–3	90 : 1	48.5
009813	300	135	38	330	18	MT–4	90 : 1	77
009814	350	140	450	380	18	MT–4	90 : 1	98
009815	400	155	500	430	18	MT–4	90 : 1	130



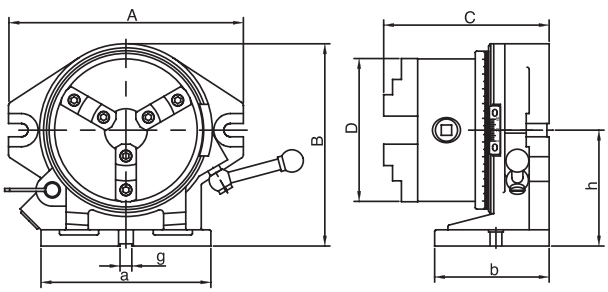


CS–Döner Tabla Bölme Aparatlı (Aynalı)

Döner tabla bölüntülü aparatlar sayesinde otomaik olarak böler. 3 ayaklı aynası ile yatay ve dikey kullanılabilir.
Bölüntülü aparatları ve tabla ünitesi standart aksesuardır.

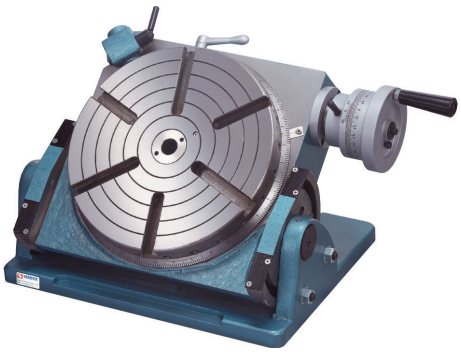
Sip. No	Kanal Adet	Tabla Ölçüsü	A	B	C	a	b	c	d	e	f	g	h	i	j	k
009816	2, 3, 4, 6	167	250	235	221	220	150	184	82	112	66	16	130	186	80	50
009817	8, 12, 20, 24	210	310	285	243	225	160	201	82	125	75	16	155	232	90	79

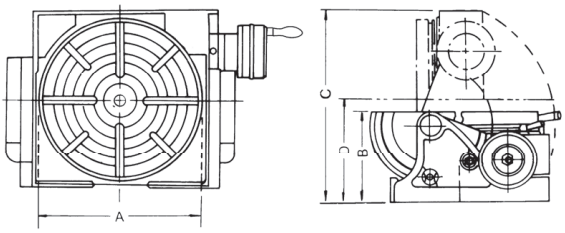




CC–Döner Tabla Bölme Aparatlı (Aynalı)

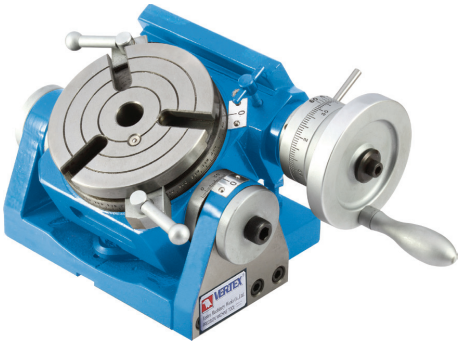
Sip. No	Divizör No	A	B	C	D	a	b	Ters Ayak	Klavuz Deliği	Düz Ayak	Taret	Ayna	Kg
009818	2, 3, 4, 6	260	218	156.2	167	220	130	4–42	16 g	10–156	44	44	29.5
009819	8, 12, 24	312	257	173.3	200	258	148	4–62	16 g	10–180	63	58	51.5

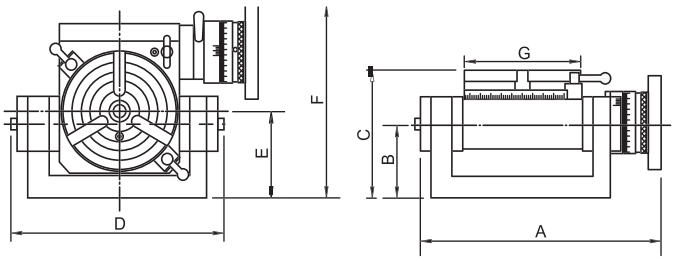




VU–Açılı Ayarlı Döner Tabla

Sip. No	A	B	C	D	E	F	Mors Tipi	Redüksiyon Orantısı	Pim ile Bölünme Taksimatı	Kg
009820	300	185	405	228	336	444	MT–5	90 : 1	24	93





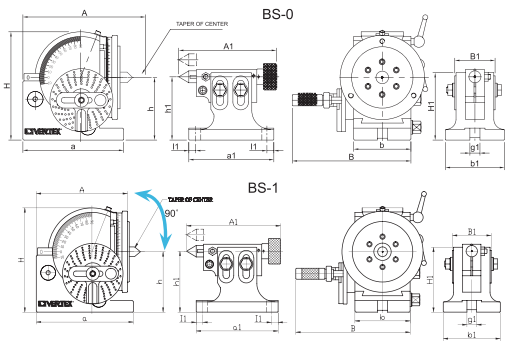
VU–Dereceli Tabla Divizör

Üniversal tip döner tablalar yatay ve dikey olarak kullanılabilir. 90° 'e kadar her ölçüde durdurulabilir.
Kol 1 tur döndüğünde 4° 'e döner 90 turda 360° 'i tamamlamış olur. Tezgahlarda 2 eksen avantajlıdır.

Sip. No	A	B	C	D	E	F	G	Kg
009821	228	68	117	202	80	117	100	13.5
009822	266	75	140	246	90	216	150	21
009823	429	111	177	432	141	283	205	50



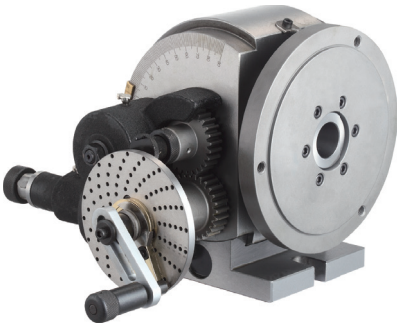


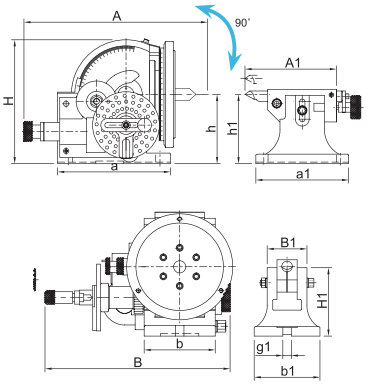


BS–Üniversal Divizör

BS–0 modelinde 100 ve 125 mm / BS–1 modelinde 160 mm'lik ayna kullanılır. Dereceli üniversal divizörde her açıdan işlem yapılabilir. Dikey 10°, yatay 90° ' nin altında kitlenebilir. Kol 1 tur döndüğünde 9° 'e döner 40 tur döndüğünde 360° 'yi tamamlamış olur.

Sip. No	A	B	C	D	E	F	G	Kg
009824	189	160	100	173	16	91	140	22
009825	293	210	128	220	16	114	156	26

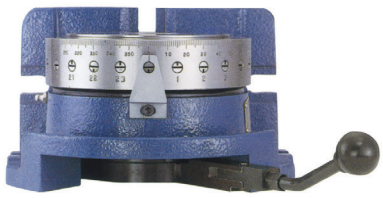


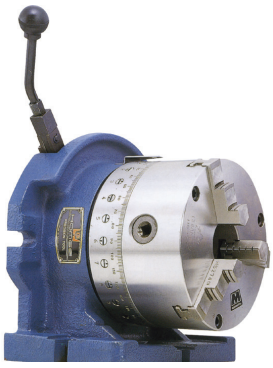


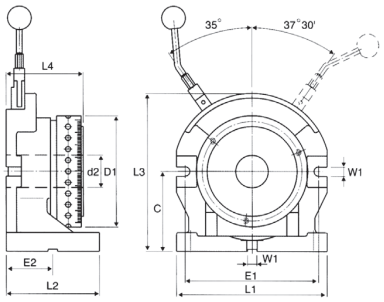


BS–Üniversal Divizör

Sip. No	A	B	C	D	E	F	G	Kg
009826	365	213	132.7	236	16	134	272	73



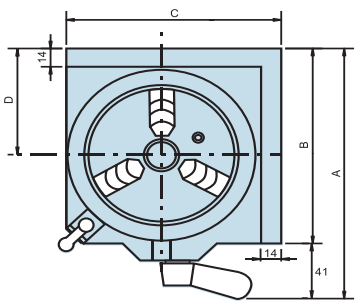


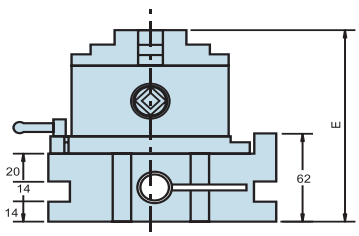


HSD–Dereceli Yatay–Dikey Süper Divizör

Sip. No	C	D1	E1	E2	W1	L1	L2	L3	L4	Kg
009827	138	192	230	80	16	260	160	273	273	32





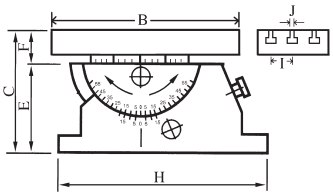


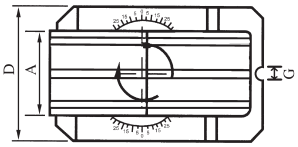
VSI–Ekonomik Tip Yatay Dikey İndeks Divizör

Büyük kapasitesi (Ø3–Ø100) ile pens sisteminden daha iyidir. Basit ve hızlı operasyon 15° 'lik 24 delikli plaka, açısal indeksleme için tabla ölçeği 1° 'dir. Tabla deliği 30 mm'dir. Yatay–Dikey kullanım için uygundur. Frezeleme ve matkap makinalarına uygundur.

Sip. No	A	B	C	D	E	Kg
009828	187	146	146	80	135	10.5
009829	202	161	161	87	142	14.5





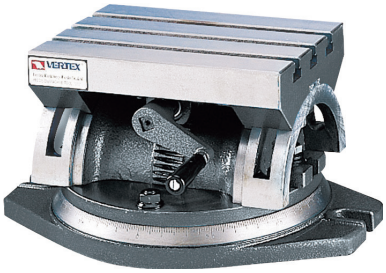


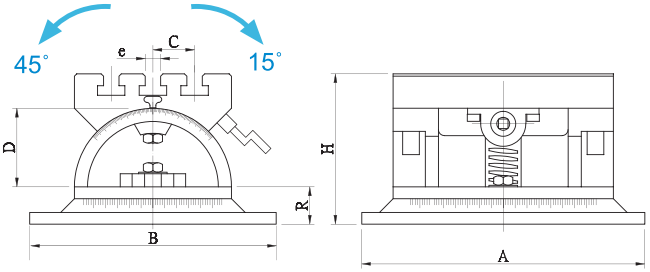
VUA–Üniversal Açılı Tabla

Açılı tabla hassas taşlanmış / Rijit tasarım
Yatay 360°, dikey 45° hareket kabiliyeti

VMV ve VDV tip mengene ile 3 ayaklı ayna takılabilir.
Hassas okuma için ölçülendirilmiştir.

Sip. No	A	B	C	D	E	F	G	H	I	J	Kg
009830	100	200	125	110	82	50	16	182	30	12	15
009831	126	250	125	110	82	50	16	182	40	12	18.1



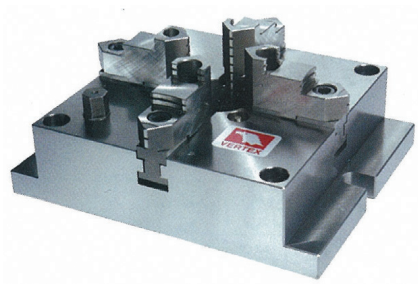


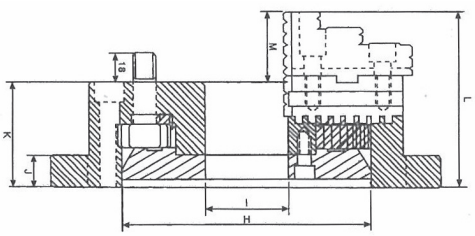
VUA–Üniversal Açılı Tabla

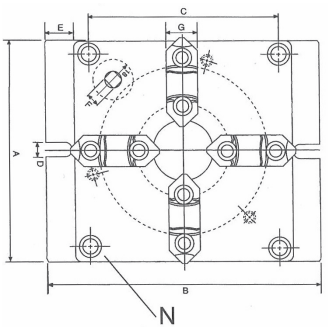
Çeşitli tezgahlarda açı sabitlemek için kullanılır.
Daha alçak açılı tabla ile daha büyük çalışma alanı sağlar.

Malzemesi FC30° 'dur.

Sip. No	Tabla			T–Yuva			R	Kg
	A	B	H	e	C	D		
009832	243	230	177	10	50	90	40	40
009833	360	270	233	12	68	127	48	76

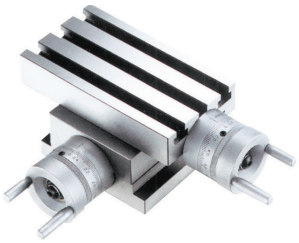




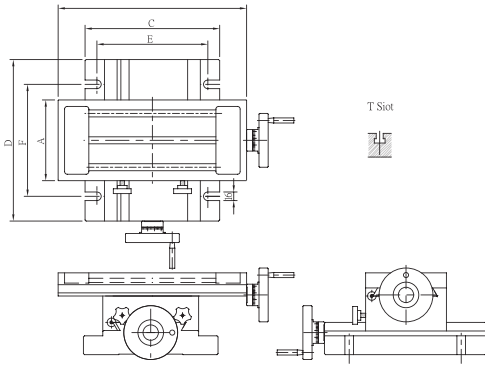


VMJ–4 Ayaklı Yatay Kare Ayna

Sip. No	A	B	C	D	E	G	H	I	J	K	L	M	N	Maksimum Sıkma Çapı		Kg
														Dıştan Sıkma	İçten Sıkma	
009834	165	215	144	18	50	26	130	40	18	57	96	39	4–M10	Ø 4–Ø 128	Ø 55–Ø 128	13.5
009835	200	250	174	18	50	28	160	55	20	65	108	43	4–M12	Ø 5–Ø 162	Ø 62–Ø 162	21.5
009836	250	310	218	18	60	32	200	70	22	72	122	50	4–M14	Ø 6–Ø 200	Ø 72–Ø 200	36.1
009837	310	380	274	22	70	40	260	100	25	85	141	56	4–M16	Ø 10–Ø 265	Ø 90–Ø 265	61.7







VCT–Hassas Çapraz Suport

Sip. No	A	B	C	D	E	F	Hareket	T Yuva	Toplam Yükseklik	Ölçek Oranı	Paket Ölçüleri E x B x Y	Kg
009838	100	180	130	100	115	50	50 x 80	3/8"	100	2.5 mm / 0.02	290 x 240 x 140	12
009839	150	350	250	300	206	208	156 x 170	3/8"	134	4 mm / 0.02	510 x 450 x 240	33.5
009840	200	500	300	400	250	290	200 x 250	3/8"	155	4 mm / 0.02	640 x 520 x 200	72
009841	250	600	400	500	340	430	250 x 300	1/2"	210	4 mm / 0.02	790 x 680 x 310	141

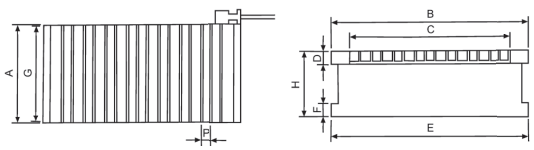
Sip. No	Tabla Yuvası	Civata Ölçüsü	Kg
009842	10	M8–1.25P	7.4
009843	12	M10–1.25P	7.6
009844	14	M12–1.75P	9.4
009845	15.7	M12–1.75P	9.5
009846	16	M14–2.00P	11.1
009847	18	M16–2.00P	12.6
009848	20	M18–2.50P	25.3
009849	22	M20–2.50P	27



CK–52 Parça Kalıp Bağlama Seti

24 adet civata (75 / 100 / 125 / 150 / 175 / 200 mm)
6 adet somun
4 adet işleme somunu
6 adet flanş somunu
6 adet pabuç kilidi
6 adet pabuç bloğu
CK–18 ve CK–20 tahta kutulu



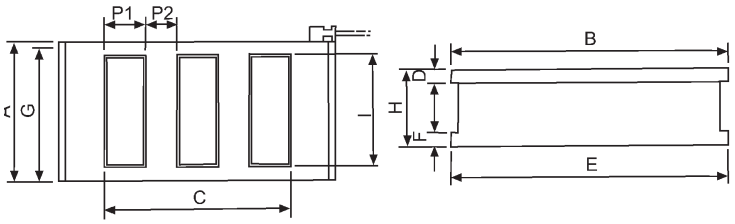


VEM–Elektrikli Manyetik Tabla 450 GAUSS

Yağ içerisinde çalışabilir. Elektrik kontrol panosu şarttır.
Sath taşlama ve erezyon tezgahlarında kullanıma uygundur.

Sip. No	Tabla Ölçüsü	Manyetik Ölçüler				P	Manyetik Yüzey			Kg
		A	B	C	D		G	E	H	
009850	300 x 600	300	600	529	20	15	290	600	70	97
009851	400 x 800	400	800	725	25	19	390	800	80	182
009852	400 x 1000	400	1000	936	25	19	390	1000	80	228
009853	500 x 1000	500	1000	936	25	19	490	1000	80	285

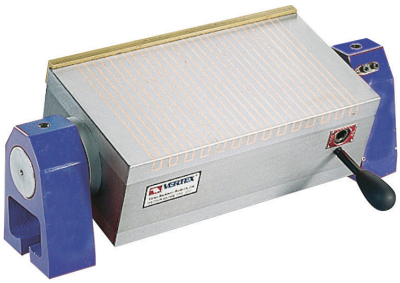


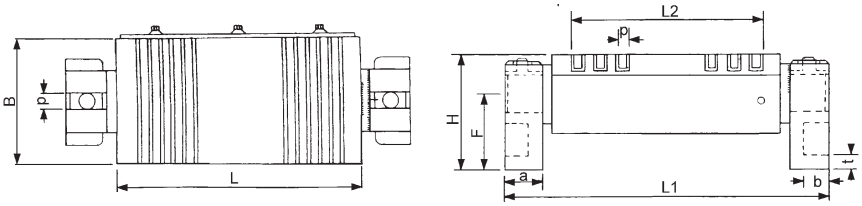


GAUSS–Elektrikli Manyetik Tabla 1200

Elektrikli manyetik tabla çok kuvvetli tutma gücüne sahiptir.Yağ içerisinde çalışabilir. Elektrik kontrol panosu şarttır.
Kalıpçı freze CNC freze satıh taşlama ve erezyon tezgahlarında kullanıma uygundur.

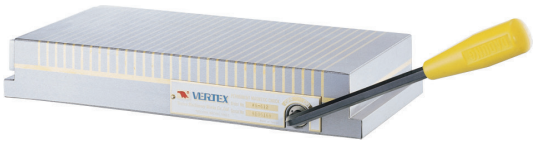
Sip. No	Tabla Ölçüsü	Manyetik Ölçüler					P1	P2	Manyetik Yüzey				Kg
		A	B	C	D	I			G	E	F	I	
009854	400 x 800	400	800	718	25	340	48	30	390	800	20	120	230
009855	500 x 1000	500	1000	917	25	430	45	35	490	1000	10	120	360

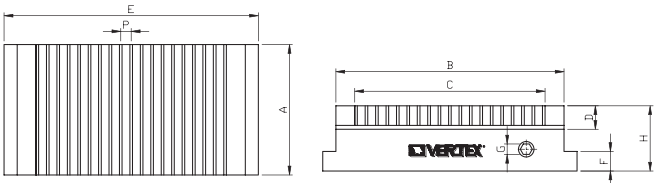




VLW–Dereceli Manyetik Tabla

Sip. No	Tabla Ölçüsü	Manyetik Ölçüler			Tabla Ayak Ölçüleri				H	Kg
		B	L	L2	d	C	F	L1		
009856	125 x 250	125	250	190	16	100	96	380	150	34
009857	150 x 300	150	300	240				430		43
009858	150 x 300	150	300	240	16	100	96	430	150	43

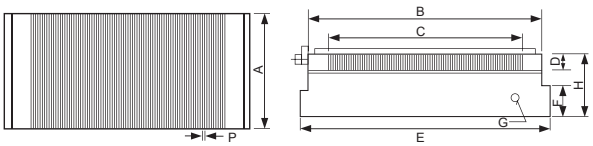




VG–Serisi Manyetik Tabla

Sip. No	Tabla Ölçüsü	Manyetik Ölçüler				Manyetik Yüzey			H	Kg
		A	B	C	D	G	E	F		
009859	125 x 250	125	250	206	20	125	262	15	50	12
009860	150 x 300	150	300	256	20	150	318	15	50	18
009861	200 x 400	200	400	356	20	200	418	15	50	31
009862	200 x 500	200	500	456	20	250	518	15	50	39
009863	250 x 500	250	500	456	20	250	518	15	50	50.3
009864	300 x 600	300	600	550	18	300	620	15	48	72

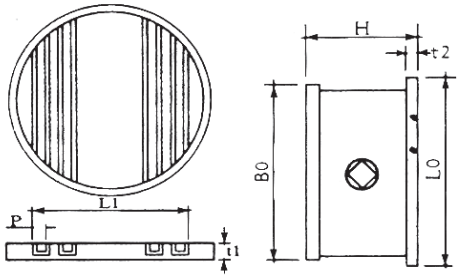




VGF–Serisi Manyetik Tabla

Sip. No	Tabla Ölçüsü	Manyetik Ölçüler				Manyetik Yüzey			H	Kg
		A	B	C	D	A	E	F		
009865	150 x 250	150	150	116	18	150	162	15	50	9
009866	150 x 300	150	300	256	18	150	318	15	50	18
009867	150 x 450	150	450	406	18	150	470	15	50	21.6
009868	200 x 400	200	400	356	18	200	416	15	50	31





VGD–Yuvarlak Tip Manyetik Tabla

Sip. No	Tabla Ölçüsü			Manyetik Taban Ölçüsü		H	Kg
	B0	B1	L1	t2	L2		
009869	150	21	101	18	200	78	9
009870	200	21	137	18	200	78	14
009871	250	21	191	18	250	78	24
009872	300	21	227	18	305	78	30



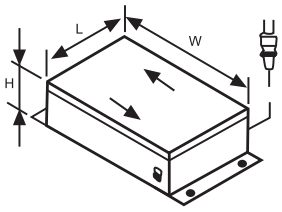
VDM–68



VDM–9

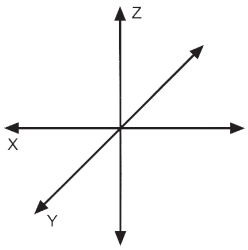


VDM–8–11



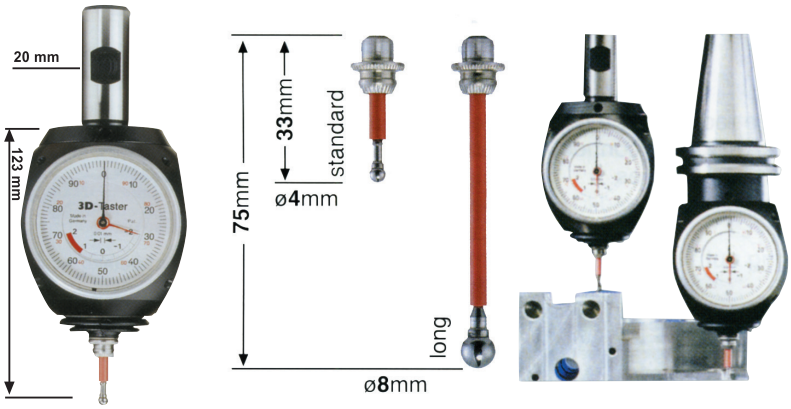
VDM–Manyetik Almalar

Sip. No	Güç	Kapasite	Etkinlik	L x V x H (mm)
009873	AC / 220 V	330 VA	% 100	150 x 200 x 100
009874	AC / 220 V	210 VA	% 50	160 x 110 x 100
009875	AC / 220 V	550 VA	% 100	200 x 280 x 130
009876	AC / 220 V	110 VA	% 90	123 x 83 x 83



3D Tester (3 Boyutlu Ölçüm İçin)

İndikatör (Saat Ekranı) 0 (Sıfır) gösterdiğinde makinenin merkezi bulunmuş, tekrar hesaplamaya gerek yoktur. Test çubuğu x–y–z akslarında hareket edebilir veya iş parçası üzerinde gezdirilebilir, taksimat aralığı 0.01 mm'dir. Güvenilir–hassas konstrüksiyonda üretilmiştir. Test çubukları ayrıca temin edilebilir, merkezleme, köşe bulma, ölçeğe getirme, 0 (Sıfır) noktası markalama için ideal bir cihazdır.



Sip. No	Açıklama	Hassasiyet
009877	3 Boyutlu Test Cihazı	0.01

Sip. No	Açıklama	Ağırlık
009878	4 x 33 Standart Ayak	10 gr
009879	8 x 75 Uzun Ayak	15 gr

Z Aksı Sıfırlama

Z–50



Sip. No
009880



Z–100

Z–50

Sip. No	Ürün
009881	Z-50
009882	Z-100

Z Aksı Sıfırlama

Işıklı–Elektronik



Sip. No
009883

Işıklı

Işıklı Sesli Prob



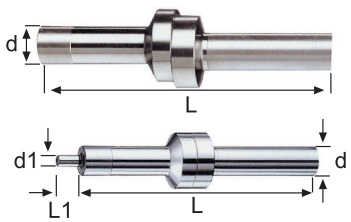
Sip. No
009884

Işıklı Prob



Sip. No
009885

Mekanik Prob



Sip. No	d	d1	L	L1
009886	10		83	
009887	10	4	90	8



Jhonson Mastarı

Sip. No	Set
009888	47 Parça
009889	87 Parça
009890	112 Parça

Şapkalı Gönye



Sip. No	Ebat
009891	50 x 40 mm
009892	75 x 50 mm
009893	100 x 70 mm
009894	150 x 100 mm
009895	200 x 130 mm
009896	250 x 165 mm
009897	300 x 1750 mm
009898	400 x 230 mm
009899	500 x 280 mm

Kıl Gönye



Sip. No	Ebat
009900	50 x 40 mm
009901	75 x 50 mm
009902	100 x 70 mm
009903	150 x 100 mm
009904	200 x 130 mm
009905	300 x 200 mm

Çelik Layner



Sip. No	Ebat	Kalınlık
009906	13 mm	0.01 mm
009907		0.02 mm
009908		0.05 mm
009909		0.08 mm
009910		0.10 mm
009911		0.15 mm
009912		0.20 mm
009913		0.30 mm
009914		0.50 mm
009915		0.80 mm
009916		1.00 mm
009917		1.50 mm
009918		2.00 mm



VMB–70 VMB–B VMB–106 VMB–01 VMB–106H VMH–62 VMH–54 VMH–71

Sip. No	Ölçüler	Kuvvet	Kol Ölçü	Kg
009919	62 x 50 x 55	80	12 x 173	1.5
009920	62 x 50 x 55	80	12 x 173	1
009921	62 x 50 x 55	100	25 x 198	2
009922	75 x 50 x 55	100	25 x 125	3
009923	75 x 50 x 55	100	25 x 125	1.9
009924	65 x 50 x 55	75	16 x 330	1.5
009925	65 x 50 x 55	75	16 x 330	1.7
009926	65 x 50 x 55	75	15 x 500	1.8



VMS-9B VMS-7B

VMS–Manyetik Seperatör

Sip. No	Boy x En x Yükseklik
009927	180 x 170 x 75
009928	239 x 220 x 65



Bor Yağ Hortumu

Sip. No	Ürün Kodu	Ağız	h	Ayar Mesafesi
009929	ESK	Yuvarlak	300	1/4
009930	ESB	Yuvarlak	400	3/8
009931	ESK G	Genis	300	1/4
009932	ESB G	Genis	400	3/8
009933	ESB 1/2	Yuvarlak	400	1/2
009934	ESB 1/2G	Genis	400	1/2
009935	Musluk	Hortum fiyatına eklenir		



VCP–Manyetik V Yatak

Sip. No	Kuvvet	H	W	L	L1	L2
009936	70 Kgs	95.3	70	101.6	50	20



VCP–Manyetik V Yatak (Uzun)

Sip. No	Kuvvet	H	W	L	L1
009937	30 Kgs	73	54	70	38
009938	35 Kgs	75	60	125	38



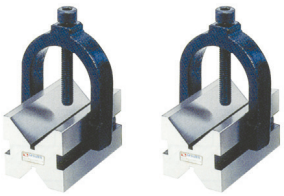
Taşlanmış Kare V Yatak

Sip. No	W1 Kuvvet	Kuvvet	H	W	L	W1
009939	25 Kgs	50 Kgs	100	100	100	26
009940	50 Kgs	140 Kgs	150	150	150	32



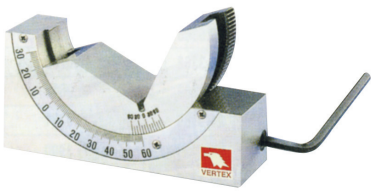
Taşlanmış Kare V Yatak

Sip. No	Kuvvet	H	W	L	L2
009941	17 Kgs	74	45	110	60
009942	23 Kgs	100	50	150	90



PVY–Paralel V Yatak

Sip. No	Ebat
009943	44 x 41 x 35
009944	70 x 44 x 41



AVV–Açı Ayarlı V Yatak

Sip. No	Ebat
009945	30 x 48 x 102



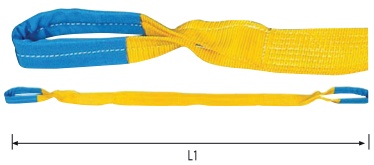
Taşıyıcı Sonsuz Sapan

Sip. No	Taşıma	L1
009946	1.000 kg	2m
009947		3m
009948		4m
009949		5m
009950		6m
009951		8m
009952	2.000 kg	2m
009953		3m
009954		4m
009955		5m
009956		6m
009957		8m

Sip. No	Taşıma	L1
009958	3.000 kg	2m
009959		3m
009960		4m
009961		5m
009962		6m
009963		8m
009964	4.000 kg	2m
009965		3m
009966		4m
009967		5m
009968		6m
009969		8m

Sip. No	Taşıma	L1
009970	5.000 kg	2m
009971		3m
009972		4m
009973		5m
009974		6m
009975		8m
009976	6.000 kg	2m
009977		3m
009978		4m
009979		5m
009980		6m
009981		8m

Sip. No	Taşıma	L1
009982	8.000 kg	2m
009983		3m
009984		4m
009985		5m
009986		6m
009987		8m
009988	10.000 kg	2m
009989		3m
009990		4m
009991		5m
009992		6m
009993		8m



Taşıyıcı Sapan

Sip. No	Taşıma	L1
009994	1.000 kg	2m
009995		3m
009996		4m
009997		5m
009998		6m
009999		8m
0010000	2.000 kg	2m
0010001		3m
0010002		4m
0010003		5m
0010004		6m
0010005		8m

Sip. No	Taşıma	L1
0010006	3.000 kg	2m
0010007		3m
0010008		4m
0010009		5m
0010010		6m
0010011		8m
0010012	4.000 kg	2m
0010013		3m
0010014		4m
0010015		5m
0010016		6m
0010017		8m

Sip. No	Taşıma	L1
0010018	5.000 kg	2m
0010019		3m
0010020		4m
0010021		5m
0010022		6m
0010023		8m
0010024	6.000 kg	2m
0010025		3m
0010026		4m
0010027		5m
0010028		6m
0010029		8m

Sip. No	Taşıma	L1
0010030	8.000 kg	2m
0010031		3m
0010032		4m
0010033		5m
0010034		6m
0010035		8m
0010036	10.000 kg	2m
0010037		3m
0010038		4m
0010039		5m
0010040		6m
0010041		8m



Çelik Harf Takımı

Sip. No	Tip	Ebat	Sip. No	Tip	Ebat
0010042	Düz	1.0 mm	0010056	Ters	1.0 mm
0010043		1.5 mm	0010057		1.5 mm
0010044		2.0 mm	0010058		2.0 mm
0010045		3.0 mm	0010059		3.0 mm
0010046		4.0 mm	0010060		4.0 mm
0010047		5.0 mm	0010061		5.0 mm
0010048		6.0 mm	0010062		6.0 mm
0010049		8.0 mm	0010063		8.0 mm
0010050		10.0 mm	0010064		10.0 mm
0010051		12.0 mm	0010065		12.0 mm
0010052		15.0 mm	0010066		15.0 mm
0010053		16.0 mm	0010067		16.0 mm
0010054		18.0 mm	0010068		18.0 mm
0010055		20.0 mm	0010069		20.0 mm



Çelik Rakam Takımı

Sip. No	Tip	Ebat	Sip. No	Tip	Ebat
0010070	Düz	1.0 mm	0010084	Ters	1.0 mm
0010071		1.5 mm	0010085		1.5 mm
0010072		2.0 mm	0010086		2.0 mm
0010073		3.0 mm	0010087		3.0 mm
0010074		4.0 mm	0010088		4.0 mm
0010075		5.0 mm	0010089		5.0 mm
0010076		6.0 mm	0010090		6.0 mm
0010077		8.0 mm	0010091		8.0 mm
0010078		10.0 mm	0010092		10.0 mm
0010079		12.0 mm	0010093		12.0 mm
0010080		15.0 mm	0010094		15.0 mm
0010081		16.0 mm	0010095		16.0 mm
0010082		18.0 mm	0010096		18.0 mm
0010083		20.0 mm	0010097		20.0 mm



Takım Bileme U2

Sip. No
0010098



U2 Bileme U2–E

Parmak Freze Bileme Aparatı

Sip. No
0010099



U2 Bileme U2–L

Kater elmas Uç Bileme Aparatı

Sip. No
0010100



U2 Bileme U2–T

Matkap Ucu Bileme Aparatı

Sip. No
0010101

Standart Donanım

Taş bileme elması
EKW Bileme taşı
5 adet Pens 4–6–8–10–12
Aydınlatma lambası
Tutucular ve takımlar

Freze ve CNC tezgahlarında kullanılmak üzere hazırlanacak özel formlu kalemleri bilemek için idealdir.
Matkap ve frezede bilenebilir.
Maksimum pens kapasitesi 18 mm'dir.
Devir 3.600 rpm
Motor 1/3 Hp 220 V 50 / 60 Hz
Ağırlık 60 Kg
Makina ölçüleri 45 x 40 x 35



VCF500–Pah Kırma



VCF500F–Pah Kırma



VCF600–Pah Kırma

Sip. No	Ürün Kodu	Pah Kırma	Devir	Açı	Yataklama	Motor (Kw)
0010102	VCF600	0–3	12000	45°	130	0.59
0010103	VCF500F	0–3	3500	45°	500	0.75
0010104	VCF500	0–3	3500	15°–45°	500	0.75



Emniyetli Tip Klavuz Tutucu

Sip. No
0010105

Hidrolik Klavuz Çekme Avantajları;

* Ürünlerimizde kullanıcağınız emniyetli klavuz tutucular sayesinde klavuz kırma probleminize son verebilirsiniz. Böylece elle veya başka yöntemlerle
klavuz çekerken katlanmak zorunda kalacağınız takım maliyeti ortadan kalkmış olacaktır.
* Makinalarımızın çalışma prensibi olan masa düzlemine göre herzaman dik klavuz çekme özelliği sayesinde klavuz çekme işlemleriniz yüksek hız ve
performansta, delik eksenine dik ve standart olarak gerçekleştirmektedir. Elle klavuz çekme işleminde uygulanan 1–2–3 sıralı takım klavuzlar yerine
makinamız tek seferde makina klavuzu ile işlem gerçekleştirmektedir.
* Makinayı kullanmak için tek personel yeterli olacak ve personelin kalifiye olma zorunluluğu minimuma indirilecektir. Personelden alınan verim
makinanın seri olmaz özelliği ile paralel olarak artacaktır. Böylece birim klavuz çekme maliyetiniz minimuma inecektir.
* Makinamızda klavuz çekme işlemi klavuz büyüklüğüne bağımlı olarak ortalama 3–5 saniye arasında gerçekleşmekte ve böylece elle veya başka
yöntemlerle klavuz çekme işlemlerinde harcadığınız kayıp zamanı size üretim olarak geri kazandıracaktır.



Matkap freze tezgahı x ekseni otomatiktir.
Yüzey tarama ve delmede çok kullanışlıdır.
Motor gücü 1 hp devir 110–2580'dir.

Sip. No
0010106

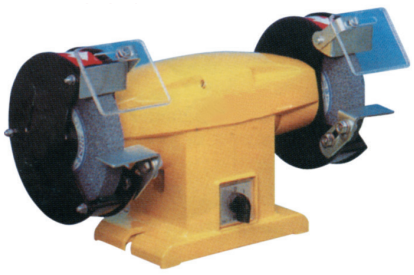
Matkap Freze Tezgahı



Şerit testere tezgahı 180 mm kapasiteli olup dikey pozisyonda dekupaj tezgah görevi de görür.
Seri ve kullanışlıdır.

Sip. No
0010107

Şerit Dekupaj Tezgahı



TM–Taş Motoru

Sip. No	Taş Çapı
0010108	Ø 150
0010109	Ø 175
0010110	Ø 200



Pim Kesme Makinası

Maks. Kesme Çapı : 25 mm
Kesme Aralığı : 30 mm–300 arası
Boy Hassasiyeti : ± 0.01
* Hava ile soğutarak kesim imkanı sağlar.

Sip. No
0010111



Freze Otomatiği

Tüm freze tezgahlarında X–Y–Z eksenlerinde kolaylıkla uygulanmaktadır. (Gücü = 500W)

Sip. No
0010112



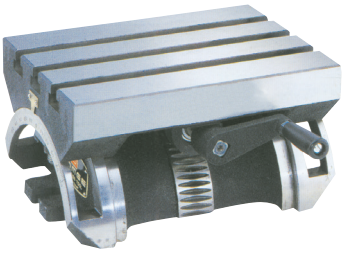
Sip. No	W x H x L x h (mm)
0010113	5 x 16 x 100 / 2 Adet
0010114	6 x 18 x 100 / 2 Adet
0010115	10 x 30 x 100 / 2 Adet
0010116	12 x 36 x 100 / 2 Adet
0010117	14 x 48 x 150 / 2 Adet
0010118	18 x 60 x 150 / 2 Adet
0010119	22 x 62 x 150 / 2 Adet
0010120	31 x 15 x 200 x 2.5 / 2 Adet

Paralel Set



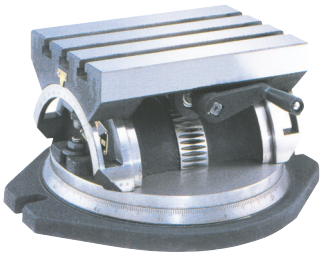
Sip. No	W x H x L x h (mm)
0010121	14 x 10 x 150 / 2 Adet
0010122	16 x 10 x 150 / 2 Adet
0010123	18 x 10 x 150 / 2 Adet
0010124	20 x 10 x 150 / 2 Adet
0010125	22 x 10 x 150 / 2 Adet
0010126	24 x 10 x 150 / 2 Adet
0010127	26 x 10 x 150 / 2 Adet
0010128	28 x 10 x 150 / 2 Adet
0010129	30 x 10 x 150 / 2 Adet
0010130	32 x 10 x 150 / 2 Adet
0010131	35 x 10 x 150 / 2 Adet
0010132	40 x 10 x 150 / 2 Adet
0010133	45 x 10 x 150 / 2 Adet
0010134	50 x 10 x 150 / 2 Adet

Paralel Set



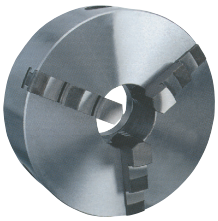
Açılı Tabla

Sip. No	Ebat
0010135	180 x 130 x 91
0010136	250 x 178 x 133



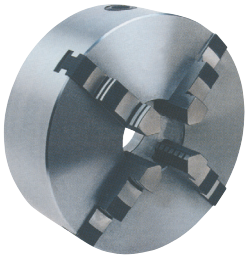
Döner Açılı Tabla

Sip. No	Ebat
0010137	265 x 220 x 135
0010138	350 x 305 x 185



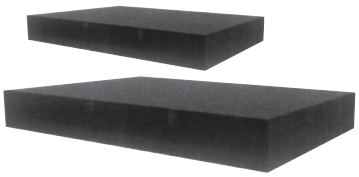
3 Ayaklı Torna Aynası

Sip. No	Ebat	Sip. No	Ebat
0010139	80 / 3		200 / 3
0010140	100 / 3		250 / 3
0010141	125 / 3		315 / 3
0010142	160 / 3		400 / 3



4 Ayaklı Torna Aynası

Sip. No	Ebat	Sip. No	Ebat
0010143	80 / 4		200 / 4
0010144	100 / 4		250 / 4
0010145	125 / 4		315 / 4
0010146	160 / 4		400 / 4



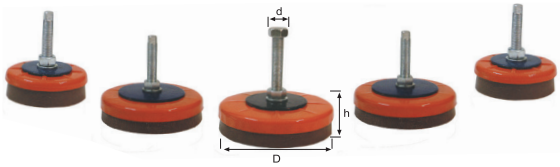
Granit Pleyt

Sip. No	Ebat
0010147	400 x 250 x 80
0010148	630 x 400 x 100
0010149	800 x 500 x 130



VR Tezgah Gönyesi 90°

Sip. No	A	B	C
0010150	150	126	115
0010151	202	150	126
0010152	250	202	126
0010153	300	228	101



ES Makina Tamponları

Sip. No	D (mm)	d	h (mm)	Ayar Mesafesi	Taşıma Kapasitesi
0010154	80	M 12 x 1.5	45	12	100 kg–400 Adet
0010155	120	M 16 x 1.5	45	14	400 kg–600 Adet
0010156	160	M 16 x 1.5	45	16	600 kg–900 Adet
0010157	160	M 20 x 1.5	45	16	900 kg–1200 Adet
0010158	200	M 12 x 2.5	55	25	1000 kg–4000 Adet
0010159	200	M 16 x 2.5	55	25	1000 kg–4000 Adet
0010160	200	M 20 x 3.0	60	25	1500 kg–5000 Adet





İş Ayakkabıları

	Model	Taban	ISO	Ürün Kodu	Koruma	Kalıp
	Jupiter	Jupiter Taban	EN ISO 20345:2011	157-01 Gray	S1/S1P	JUPITER

Saya	Astar	İç Taban	Taban	Burun Koruma	Ara Taban	Numara
Süet Deri	Ter emici nefes alabilen astar	Nefes alan iç tabanlık	PU/PU Çift Densite	Çelik Burun	Çelik Taban	36-46



Üniversal Tulumba Pres

Darbe Gücü : 2.500 kg / cm
Pens Deliği : 9 mm
Kapasite : Dakikada 25 vuruş

Konfeksiyon sanayide ve kasül
düğmeye kumaş kaplar
Rivet ve kuş gözü çıt çıt

Sip. No
0010161



4122
Manuel Darbeli Pres

Darbe Gücü : 900W
Parça Yüksekliği : 11.500 dev/dak
Tablo Genişliği : 115 mm

Konfeksiyon sanayide ve kasül
düğmeye kumaş kaplar
Rivet ve kuş gözü çıt çıt

Sip. No
0010162



4388
Elektrikli Darbe Pres

Darbe Gücü : 2.500 kg / cm
Pens Deliği : 9 mm
Kapasite : Dakikada 25 vuruş

Konfeksiyon sanayide ve kasül
düğmeye kumaş kaplar
Rivet ve kuş gözü çıt çıt

Sip. No
0010163



4241
Pnömatik Darbeli Markalama Presi

Darbe Gücü : 1.300 kg/cm
Parça Yüksekliği : 320 mm
Tablo Genişliği : 160 x 160

Konfeksiyon sanayide ve kasül rivet ve
kuş gözü çıt çıt, kozmetik-otomotiv
sanayinde kullanılır

Sip. No
0010164



4156
Hassas Masa Matkabı

Mandren Deviri : 2810dev/dak
Delme Gücü : 8 mm'ye kadar pens

Zamak, toka, çanta sıvamada
Elektrik montaj sanayisinde
Kuyumculuk sektöründe

Sip. No
0010165



4152
Hassas Masa Matkabı

Motor Gücü : 200 W
Mandren Devri : 25.000 dev/dak
Delme Gücü : max. 5 mm
Tablo Genişliği : 160 x 160

Zamak, toka, çanta sıvamada
Elektrik montaj sanayisinde
Kuyumculuk sektöründe

Sip. No
0010166



M13–Tek Devir Matkap Tezgahı

Motor Gücü	: 0,55 Kw 1400 D/dk
Matkap Devri	: 450-4500 devir arası 5 kademe
Delme Kapasitesi	: 13 mm
Delme Derinlik Mesafesi	: 90 mm
Mors Mili Koniği	: B 16
Tabla İle Mandren Arasındaki Max Yükseklik	: 350 mm
Sutün Mili İle Mandren Ucu Mesafesi	: 170 mm
Tabla Kullanım Alanı	: 245 x 300
Tabla T Kanal Ölçüsü	: T-Pabuç M10 x 12

Sip. No
0010167



DK13–Tek Devir Matkap Tezgahı

Motor Gücü	: 0,55 Kw 900 D/dk
Matkap Devri	: 280-2880devir arası 5 kademe
Delme Kapasitesi	: 16 mm
Delme Derinlik Mesafesi	: M 12
Mors Mili Koniği	: 90 mm
Tabla İle Mandren Arasındaki Max Yükseklik	: 350 mm
Sutün Mili İle Mandren Ucu Mesafesi	: 170 mm
Tabla Kullanım Alanı	: 245 x 300
Tabla T Kanal Ölçüsü	: T-Pabuç M10 x 12

Sip. No
0010168

Motor Gücü	: 0,55 Kw 1400 D/dk
Matkap Devri	: 450-4500 devir arası 5 kademe
Delme Kapasitesi	: 13 mm
Delme Derinlik Mesafesi	: M 10
Mors Mili Koniği	: 90 mm
Tabla İle Mandren Arasındaki Max Yükseklik	: 350 mm
Sutün Mili İle Mandren Ucu Mesafesi	: 170 mm
Tabla Kullanım Alanı	: 245 x 300
Tabla T Kanal Ölçüsü	: T-Pabuç M10 x 12

Sip. No
0010169



2DK13–Çift Devir Matkap Tezgahı

Motor Gücü	: 0,55 Kw 900 D/dk
Matkap Devri	: 280-2880devir arası 5 kademe
Delme Kapasitesi	: 13–16 mm
Delme Derinlik Mesafesi	: M 12
Diş Çekme Kapasitesi	: 90 mm
Mors Mili Koniği	: B16
Tabla İle Mandren Arasındaki Max Yükseklik	: 350 mm
Sutün Mili İle Mandren Ucu Mesafesi	: 170 mm
Tabla Kulannım Alanı	: 245 x 300
Tabla T Kanal Ölçüsü	: T-Pabuç M10 x 12

Sip. No
0010170



GWS 7-115–Avuç Taşlama

Giriş Gücü : 720 W
Boştaki Devir Sayısı : 2.800–11.000 dev/dak
Disk Çapı : 115 mm

Sip. No
0010171



GWS 9-115–Avuç Taşlama

Giriş Gücü : 900W
Boştaki Devir Sayısı : 11.500 dev/dak
Disk Çapı : 115 mm

Sip. No
0010172



GWS 22-180–Taşlama

Giriş Gücü : 2.200 W
Boştaki Devir Sayısı : 8.500 dev/dak
Disk Çapı : 180 mm

Sip. No
0010173



GWS 24-230 H–Taşlama

Giriş Gücü : 2.400 W
Boştaki Devir Sayısı : 6.500 dev/dak
Disk Çapı : 230

Sip. No
0010174



GGS 28 LCE–Delik Taşlama

Giriş Gücü : 650 W
Boştaki Devir Sayısı : 10.000–28.000dev/dak
Disk Çapı : 8 mm'ye kadar pens

Sip. No
0010175



DREMEL 3000 1/25

Giriş Gücü : 130 W
Boştaki Devir Sayısı : 33.000 dev/dak
Disk Çapı : 3 mm'ye kadar pens

Sip. No
0010176



GUS 10.8 V-LI–Akülü Sac Kesme

Akü Gerilimi : 10.8 W
Strok Sayısı Boşta : 700 dev/dak
Akü İle Birlikte Ağırlığı : 8 mm'ye kadar pens

Sip. No
0010177



GSC 160–Sac Kesme

Akü Gerilimi : 500 W
Kesme Kapasitesi : Çelik (400 N/mm), max 1,6 mm
Strok Sayısı Boşta : 5.000 dev/dak

Sip. No
0010178



GBM 13-2RE
Darbesiz Matkap

Giriş Gücü : 550 W
Ahşapta Delme Çapı : 32/20 mm
Çelikte Delme Çapı : 13/8 mm

Sip. No
0010179



GMB 10 RE
Matkap

Giriş Gücü : 600W
Ahşapta Delme Çapı : 25 mm
Çelikte Delme Çapı : 10 mm

Sip. No
0010180



GDS 18 E
Darbeli Somun Sıkma

Giriş Gücü : 500W
Max. Tork (Sert Vidalama) : 250 Nm
Max. Tork (Yumuşak Vidalama): 160 Nm
Uç Girişi : 1/2 Dış Dörtgen

Sip. No
0010181



GDS 18 V-LI
Akülü Darbeli Somun Sıkma

Giriş Gücü : 14,4 V
Max. Tork (Sert Vidalama) : 170 Nm
Vida Çapı : M6–M16

Sip. No
0010182



GBM 32-4
Matkap

Giriş Gücü : 1500 W
Ahşapta Delme Çapı : 70 mm
Çelikte Delme Çapı : 32 mm

Sip. No
0010183



GBM 32-4
Manyetik Matkap Tezgahı

Manyetik Tutma Gücü : 25 Kn
Germe Flanşı Çapı : 65 mm
Çalışma Uzunluğu Z Ekseni : 223 mm

Sip. No
0010184



GSB 14.4-2
Akülü Matkap

Akü Gerilimi : 14,4 V
Duvarda Delme Çapı Max : 10 mm
Vida Çapı Max : 8 mm

Sip. No
0010185



GLM 50
Mesafe Ölçü Aleti

Ölçme Aralığı : 500 W
Ölçüm Hassasiyeti Tipik : Çelik (400 N/mm), max 1,6 mm
Ölçüm Süresi Tipik : 5.000 dev/dak

Sip. No
0010186



WEICONLOCK 302-43

Yüksek viskozite
Orta kuvvet
Normal aletlerle söküm

WEICONLOCK doğrudan Kalemdeki (Pen) dozlama ucu ile eşit şekilde uygulanır; bu esnada dozlama ucu direk temasından kaçının. Birleştirilecek pres mafsalları ve daha büyük parçalar için her iki yüzey de ince ve eşit olarak ıslanmalıdır. Parçaları hızla birleştirin. Sürgülü koltuklarda yapışkanın en iyi şekilde dağılması için montaj sırasında birbirlerine doğru döndürün. Birleştirilen parçalar elle tutunabilecek kadar kuruyana kadar oynatılmamalıdır. Metal ile temas eden WECONLOCK'u şişeye geri dökmeyin. En küçük metal partikülleri dahi şişede sertleşmeye yol açar. Bu nedenle seri üretimde dozlama cihazlarının kullanılmasını öneriyoruz.

Sip. No
0010187



WEICONLOCK 302-70

Orta viskozite
Yüksek kuvvet
Zor söküm

WEICONLOCK doğrudan Kalemdeki (Pen) dozlama ucu ile eşit şekilde uygulanır; bu esnada dozlama ucu direk temasından kaçının. Birleştirilecek pres mafsalları ve daha büyük parçalar için her iki yüzey de ince ve eşit olarak ıslanmalıdır. Parçaları hızla birleştirin. Sürgülü koltuklarda yapışkanın en iyi şekilde dağılması için montaj sırasında birbirlerine doğru döndürün. Birleştirilen parçalar elle tutunabilecek kadar kuruyana kadar oynatılmamalıdır. Metal ile temas eden WECONLOCK'u şişeye geri dökmeyin. En küçük metal partikülleri dahi şişede sertleşmeye yol açar. Bu nedenle seri üretimde dozlama cihazlarının kullanılmasını öneriyoruz.

Sip. No
0010188



Fren ve Balata Temizleyici

WEICON Fren Temizleyici otomotiv sanayii için üniversal temizleyicidir, kalıntı bırakmadan temizler, yağından arındırır ve buharlaştırır. Fren Temizleyici metalleri, camı ve pek çok plastiği hızlı ve kolay bir şekilde yağlarından arındırır ve temizler. Yağlı ve gresli artıklar ve artıkları temizler.
WEICON Fren Temizleyici frenlerde (kampanalı ve disk frenler, fren balataları, fren takozları, silindirler, pistonlar ve kovanlar), debriyajlarda (debriyaj balataları ve parçaları) ve motor parçalarında (karbüratörlerde, yakıt ve yağ pompalarında, dişlilerde v.b.) kullanılabilir.

Sip. No
0010189



Bio-Cut

Özel yüksek kayganlık etkisiyle WEICON Bio-Cut daha büyük kesim hızı, daha yüksek çalışma süreleri sağlar ve bu sayede aletin kesim gücünü arttırır. WEICON Bio-Cut mineral yağı içermez, VwVwS'e (Verwaltungsvorschrift wassergefährdende Stoffe = Su Kirliliklerine Dair Alman İdari Yönetmeliği) göre öz sınıflandırma olarak 1. Sınıf su kirliliğine sahiptir. Tamamen biyolojik olarak ayrışabilir.
Özellikle yüksek yağlanma etkisi sayesinde, Bio-Cut yüksek kesme hızlarını, uzun alet ömürlerini ve böylece yüksek kesme performanslarını mümkün kılar.
WEICON Bio-Cut tüm endüstriyel uygulamalarda delme, tornalama, frezeleme, zımparalama, testereyle kesme, delme ve her türlü çelik,döküm, paslanmaz çelik, bakır, pirinç, alüminyum ve bunların alaşımları ile vida açma ve pek çok başka endüstriyel uygulamada kullanılabilmektedir.

Sip. No
0010190



Top–Lub

Top-Lube yüksek gerilimli mekanik parçaların kalıcı yağlaması için sentetik, şeffaf yağdır.
WEICON Top-Lube yüksek yapışma ve bükülme dayanımına sahiptir. Harika sürünme özellikleri vardır. Basınç dirençlidir, suyu iter ve aynı zamanda ilgili güvenlik yönetmeliklerine uygun olarak operasyon sırasında kullanılabilir. Bu plastiklere ve elastomerlere zarar vermez: PTFE, PE, PA, florlanmış–bütadien ve silikon kauçuk ve polikloropren. Bu malzemeler kısıtlı dirence sahiptirler: PE-LD, POM, PP, NBR.
WEICON Top-Lube pek çok endüstriyel uygulamada güç ileten cıvatalar, dişli çarklar, salyangoz dişliler, hızlı çalışan makine parçaları, birleşme yerleri, rakorlar, röleler, bilyalı yataklar ve yaylı montajlar için kullanılabilmektedir.

Sip. No
0010191



W44 T Multi-Spray

WEICON W 44 T Multi Sprey özel formülü ve harika sürünme kapasitesi ile tek bir üründe korozyon koruması, yağlama, koruma ve temizlemeyi birleştiren çok fonksiyonlu bir üründür. WEICON W 44 T Multi Sprey sıkışan dişlileri, cıvataları, bağlantı parçalarını ve valfleri gevşetir, pasa nüfuz eder ve dağıtır, elektrik kontaklardan nemi giderir, takip akımlarını önler ve ıslak motorları başlatmayı kolaylaştırır. Menteşeler, kılavuzlar, yataklar ve tüm birleşme yerleri ve rakorlardaki gıcırtılı ve cızırtılı sesleri yok eder. Kirli metal yüzeylerini temizler ve lekelemeyen veya yapışmayan, toz çekmeyen incecik ve uzun süreli bir katman bırakır. Tüm aletleri, elektrik ve mekanik hassas cihazları korur ve onları işler halde tutar.

Sip. No
0010192



Korozyon Önleyici (Wax) Sprey

WEICON Korozyon Önleyici Alman TÜV onaylı şeffaf koruyucu bir filmdir. Aletleri ve hassas parçaları kuru bir balmumu tabakasıyla uzun süreli korur.
WEICON Korozyon Önleyici saf, boyanmamış metal parçaları için ve iş parçalarının iç depolaması için güvenli bir korozyon koruması olarak, yurtdışı taşımacılığında korozyon koruması olarak ve aletlerin ve hassas parçaların korunması için kullanılabilmektedir. Koruyucu katman kolayca sökülebilir (ör; WEICON Temizleyici S ile).

Sip. No
0010193



Genel Temizleyici

WEICON Genel Temizleyici otomotiv sanayii için üniversal temizleyicidir, kalıntı bırakmadan temizler, yağından arındırır ve buharlaştırır. GenelTemizleyici metalleri, camı ve pek çok plastiği hızlı ve kolay bir şekilde yağlarından arındırır ve temizler. Yağlı ve gresli artıklar ve artıkları temizler.
WEICON Genel Temizleyici frenlerde (kampanalı ve disk frenler, fren balataları, fren takozları, silindirler, pistonlar ve kovanlar), debriyajlarda (debriyaj balataları ve parçaları) ve motor parçalarında (karbüratörlerde, yakıt ve yağ pompalarında, dişlilerde v.b.) kullanılabilir.

Sip. No
0010194



Epoksi Dakikalık Yapıştırıcı

WEICON Epoksi Dakikalık Yapıştırıcı metal, plastik, fiber takviyeli maddeler, seramikler, cam, taş ve ahşap gibi çeşitli maddeler üzerinde kullanılabilmektedir.

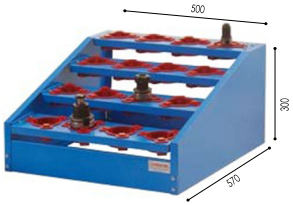
Sip. No
0010195



AL-F Çok Yönlü Yağlayıcı

WEICON ALT rulmanlı ve sürgülü yataklar, birleşme yerleri, kumanda kolları, kayıcı kılavuzlar, dingiller, frezeli miller ve gres yağı için verilen tüm kayma hızlarında uygundur.AL-T başka pek çok endüstriyel alanda kullanılabilmektedir.

Sip. No
0010196



CNC Sehpası 2755

Sip. No
0010197

4
Çekmeceli

Sip. No
0010198

Takım Arabası 8074





CNC Sehpalı
Takım Dolabı 2750

4
çekmecelt

Sip. No
0010199

3
Raflı

Sip. No
0010200



Taşıma Sehpası 8040



CNC Sehpalı
Takım Dolabı 2700

5
Çekmeceli

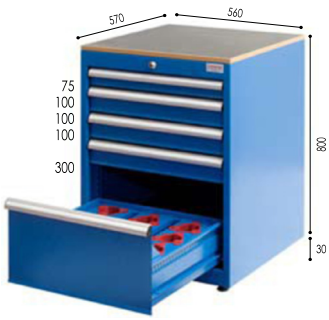
Sip. No
0010201

3 Raflı
1 Çekmeceli

Sip. No
0010202



Taşıma Sehpası 8045



1 CNC Çekmeceli
Takım Dolabı 2650

5
Çekmeceli

Sip. No
0010203

4
Çekmeceli

Sip. No
0010204



1 CNC Çekmeceli
Takım Dolabı 2740



2170–2 CNC Raflı, 3 Çekmeceli Malzeme Dolabı

Sip. No 0010205



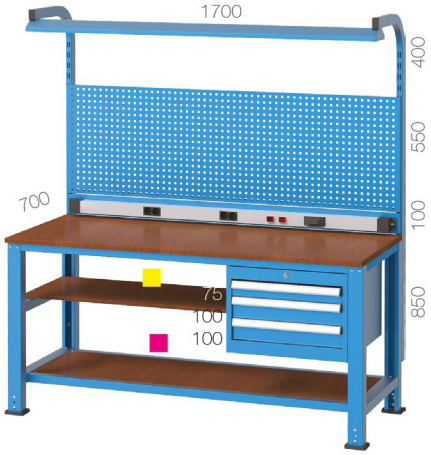
6016–Dar Tip 6'lı Soyunma Dolabı

Sip. No 0010206



2310–Hareketli CNC Tutuculu Takım Arabası

Sip. No 0010207



3775–3 Çekmeceli Askı Panolu Floresanlı Masa

Sip. No 0010208



2176–5 Çekmeceli CNC Dolabı Ve Çalışma Masası

Sip. No 0010209



3805–3 Dolaplı, 9 Çekmeceli Altıgen Çalışma Tezgahı

Sip. No 0010210



Plastik Çekmece Kutular–SET 105

Sip. No		En	Boy	Yükseklik
0010211	Dıs Ölçüleri	110 mm	170 mm	65 mm
0010212	Iç Ölçüleri	96 mm	160 mm	54 mm



Plastik Çekmece Kutular–SET 120

Sip. No		En	Boy	Yükseklik
0010213	Dıs Ölçüleri	123 mm	200 mm	80 mm
0010214	Iç Ölçüleri	112 mm	193 mm	71 mm



Plastik Çekmece Kutular–SET 140

Sip. No		En	Boy	Yükseklik
0010215	Dıs Ölçüleri	136 mm	230 mm	96 mm
0010216	Iç Ölçüleri	125 mm	226 mm	86 mm



Plastik Avadanlık Kutular–A 150

Sip. No		En	Boy	Yükseklik
0010217	Dıs Ölçüleri	128 mm	204 mm	96 mm
0010218	Iç Ölçüleri	103 mm	174 mm	94 mm



Plastik Avadanlık Kutular–A 250

Sip. No		En	Boy	Yükseklik
0010219	Dıs Ölçüleri	184 mm	304 mm	129 mm
0010220	Iç Ölçüleri	157 mm	267 mm	126 mm



Plastik Avadanlık Kutular–A 350

Sip. No		En	Boy	Yükseklik
0010221	Dıs Ölçüleri	264 mm	434 mm	168 mm
0010222	Iç Ölçüleri	230 mm	388 mm	164 mm



Plastik Kasalar–SPK 3211

Sip. No		En	Boy	Yükseklik
0010223	Dıs Ölçüleri	20 mm	30 mm	12 mm
0010224	Iç Ölçüleri	16.2 mm	26.5 mm	11 mm



Plastik Kasalar–SPK 27K

Sip. No		En	Boy	Yükseklik
0010225	Dıs Ölçüleri	295 mm	505 mm	235 mm
0010226	Iç Ölçüleri	260 mm	470 mm	215 mm



Plastik Kasalar–TEKNE 5500

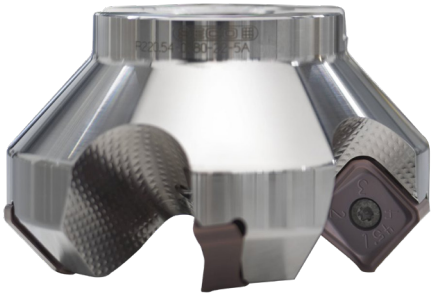
Sip. No		En	Boy	Yükseklik
0010227	Dıs Ölçüleri	80 mm	120 mm	80 mm
0010228	Iç Ölçüleri	74 mm	112 mm	65 mm

KARBÜR VE HSS KESİCİ TAKIMLAR
TAKIM TUTUCULAR
TAKMA UÇLAR





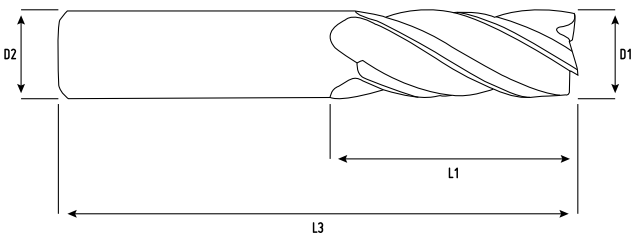








Karbür MG | Kaplama Mikronu 0.6 µm | Helis Açısı 35° | Kesme Ağzı Z4 | HRC 55 | Kaplama NaNo TiSiN

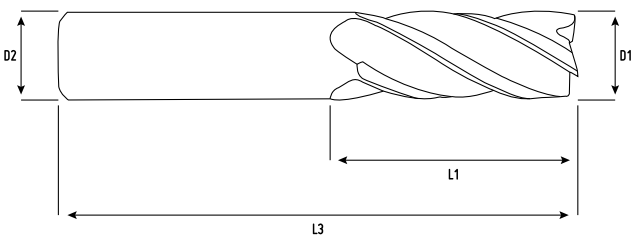


Sip. No	D1	L1	L3	D2
0010229	1	3	50	4
0010230	1,5	4	50	4
0010231	2	6	50	4
0010232	2,5	8	50	4
0010233	3	8	50	4
0010234	4	11	50	4
0010235	5	13	50	6
0010236	6	16	50	6
0010237	7	16	60	8
0010238	8	20	60	8
0010239	9	20	75	10
0010240	10	25	75	10
0010241	11	30	75	12
0010242	12	30	75	12
0010243	14	38	75	14
0010244	16	40	100	16
0010245	18	40	100	18
0010246	20	45	100	20

55 HRC 4 Ağızlı
Düz Karbür Freze



Karbür MG | Kaplama Mikronu 0.6 µm | Helis Açısı 35° | Kesme Ağzı Z4 | HRC 55 | Kaplama NaNo TiSiN

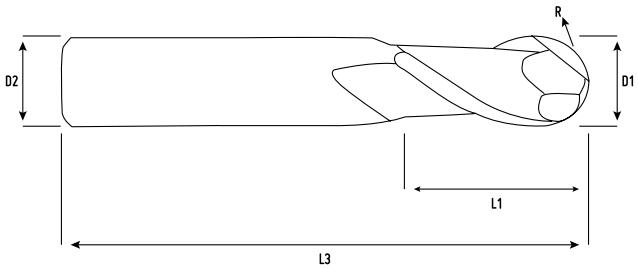


Sip. No	D1	L1	L3	D2
0010247	3	8	75	4
0010248	4	11	75	4
0010249	5	13	75	6
0010250	6	16	100	6
0010251	8	20	100	8
0010252	10	25	100	10
0010253	12	30	100	12

55 HRC 4 Ağızlı
Uzun Düz Karbür Freze



Karbür MG | Kaplama Mikronu 0.6 µm | Helis Açısı 30° | Kesme Ağzı Z2 | HRC 55 | Kaplama NaNo TiSiN

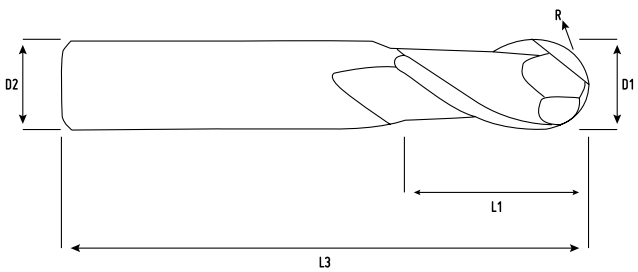


Sip. No	D1	L1	L3	D2
0010254	R0.5	2	50	4
0010255	R0.75	3	50	4
0010256	R1	4	50	4
0010257	R1.25	5	50	4
0010258	R1.5	6	50	4
0010259	R2	8	50	4
0010260	R2.5	10	50	6
0010261	R3	12	50	6
0010262	R4	16	60	8
0010263	R5	20	75	10
0010264	R6	24	75	12
0010265	R7	28	100	16
0010266	R8	32	100	16
0010267	R9	36	100	20
0010268	R10	40	100	20
0010269	16	40	100	16
0010270	18	40	100	18
0010271	20	45	100	20

55 HRC 2 Ağızlı
Küre Karbür Freze



Karbür MG | Kaplama Mikronu 0.6 µm | Helis Açısı 30° | Kesme Ağzı Z2 | HRC 55 | Kaplama NaNo TiSiN

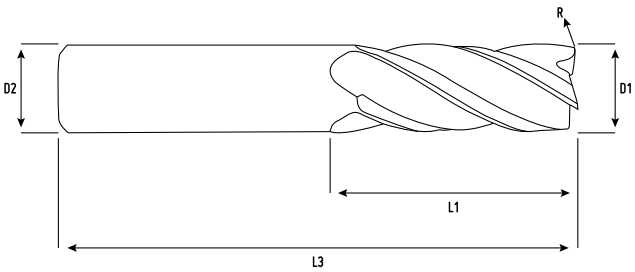


Sip. No	D1	R	L1	L3	D2
0010272	3	R 1.5	8	50	3
0010273	3	R 1.5	8	57	6
0010274	4	R 2.0	10	50	4
0010275	4	R 2.0	10	57	6
0010276	5	R 2.5	12	50	5
0010277	6	R 3.0	14	57	6
0010278	6	R 3.0	14	75	6
0010279	6	R 3.0	20	100	6
0010280	8	R 4.0	19	63	8
0010281	8	R 4.0	19	100	8
0010282	10	R 5.0	22	72	10
0010283	10	R 5.0	22	100	10
0010284	12	R 6.0	26	80	12
0010285	12	R 6.0	26	100	12

55 HRC 2 Ağızlı
Uzun Küre Karbür Freze



Karbür MG | Kaplama Mikronu 0.6 µm | Helis Açısı 35° | Kesme Ağzı Z4 | HRC 55 | Kaplama NaNo TiSiN

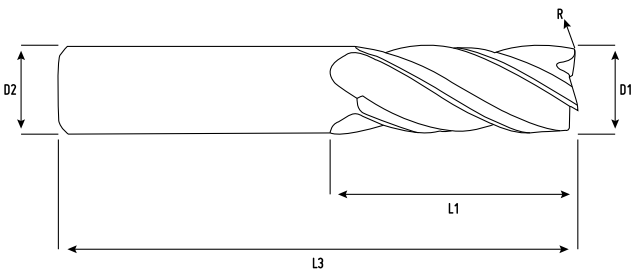


Sip. No	D1	R	L1	L3	D2
0010286	2	R0.2	6	50	4
0010287	2	R0.5	6	50	4
0010288	3	R0.2	8	50	4
0010289	3	R0.5	8	50	4
0010290	3	R1v.0	8	50	4
0010291	4	R0.5	10	50	4
0010292	4	R1.0	10	50	4
0010293	5	R0.5	13	50	6
0010294	5	R1.0	13	50	6
0010295	6	R0.5	15	50	6
0010296	6	R1.0	15	50	6
0010297	8	R0.5	20	60	8
0010298	8	R1.0	20	60	8
0010299	10	R0.5	25	75	10
0010300	10	R1.0	25	75	10
0010301	12	R0.5	30	75	12
0010302	12	R1.0	30	75	12

55 HRC 4 Ağızlı
Köşe Radius Karbür Freze



Karbür MG | Kaplama Mikronu 0.6 µm | Helis Açısı 35° | Kesme Ağzı Z4 | HRC 55 | Kaplama NaNo TiSiN

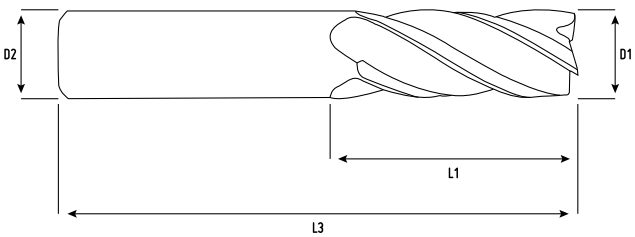


Sip. No	D1	R	L1	L3	D2
0010303	3	R0.5	16	75	3
0010304	4	R0.5	16	75	4
0010305	6	R0.5	16	75	6
0010306	6	R1.0	16	75	6
0010307	8	R0.5	20	100	8
0010308	8	R1.0	20	100	8
0010309	10	R0.5	25	100	10
0010310	10	R1.0	25	100	10
0010311	12	R0.5	30	100	12
0010312	12	R1.0	30	100	12

55 HRC 4 Ağızlı
Uzun Köşe Radius Freze





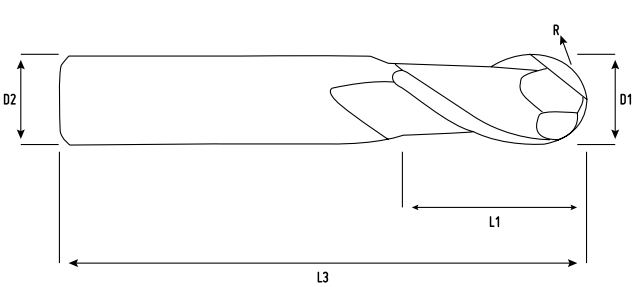


Sip. No	D1	L1	L3	D2
0010313	1	3	50	4
0010314	1,5	4	50	4
0010315	2	6	50	4
0010316	2,5	8	50	4
0010317	3	8	50	4
0010318	4	11	50	4
0010319	5	13	50	6
0010320	6	16	50	6
0010321	8	20	60	8
0010322	10	25	75	10
0010323	12	30	75	12
0010324	16	40	100	16

65 HRC 4 Ağızlı
Düz Karbür Freze SIGNUM Kaplama





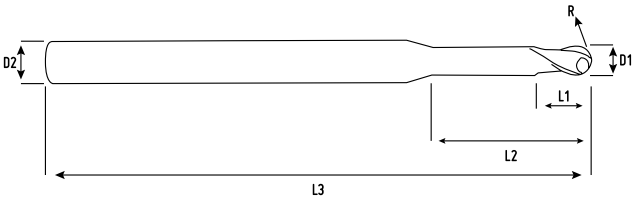


Sip. No	D1	L1	L3	D2
0010325	R0.5	2	50	4
0010326	R0.75	2,5	50	4
0010327	R1	4	50	4
0010328	R1.25	5	50	4
0010329	R1.5	6	50	4
0010330	R2	8	50	4
0010331	R2.5	8	50	6
0010332	R3	12	50	6
0010333	R4	16	60	8
0010334	R5	20	75	10
0010335	R6	24	75	12

65 HRC 2 Ağızlı
Küre Karbür Freze SIGNUM Kaplama



Karbür MG | Kaplama Mikronu 0.6 µm | Helis Açısı 30° | Kesme Ağzı Z2 | HRC 55 | Kaplama NaNo TiSiN

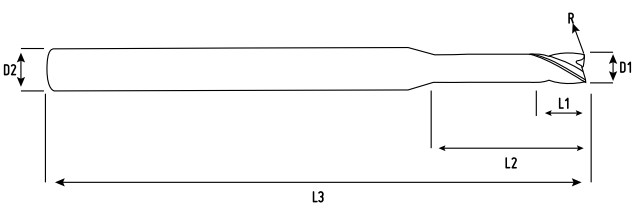


Sip. No	D1	L1	L2	L3	D2
0010336	R0.5	1,5	6	50	4
0010337	R0.75	2	8	50	4
0010338	R0.75	2	12	50	4
0010339	R1.0	3	8	50	4
0010340	R1.0	3	12	50	4
0010341	R1.0	3	16	50	4
0010342	R1.5	4	8	50	6
0010343	R1.5	4	12	50	6
0010344	R1.5	4	16	50	6
0010345	R2.0	5	12	75	6
0010346	R2.0	5	16	75	6
0010347	R2.0	5	20	75	6

55 HRC 2 Ağızlı
Dalma Boylu Küre Karbür Freze

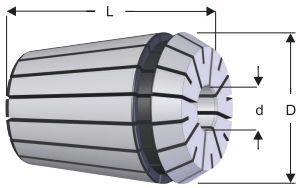


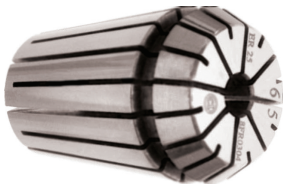
Karbür MG | Kaplama Mikronu 0.6 µm | Helis Açısı 35° | Kesme Ağzı Z4 | HRC 55 | Kaplama NaNo TiSiN



Sip. No	D1	L1	L2	L3	D2
0010348	1	1,5	6	50	4
0010349	1	1,5	10	50	4
0010350	1	1,5	12	50	4
0010351	1,5	2	8	50	4
0010352	1,5	2	12	50	4
0010353	1,5	2	16	50	4
0010354	2	3	8	50	4
0010355	2	3	10	50	4
0010356	2	3	16	50	4
0010357	2	3	20	50	4
0010358	2,5	3	12	50	4
0010359	3	4	10	50	6
0010360	3	4	16	50	6
0010361	3	4	20	60	6

55 HRC 2 Ağızlı Dalma Boylu
Köşe Radius Karbür Freze





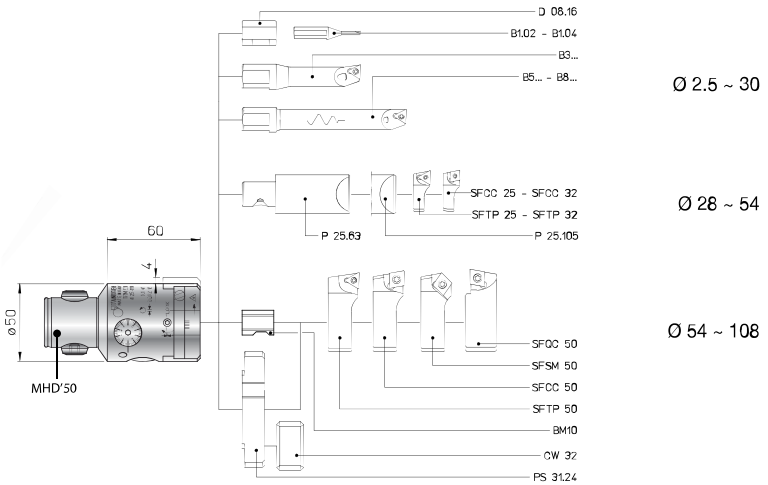
Pens Grubu

Sip. No	Tip	d	D	L
0010362	ER 11	1	12	18
0010363		2		
0010364		3		
0010365		4		
0010366		5		
0010367		6		
0010368		7		
0010369	ER 16	2	17	27.5
0010370		3–2		
0010371		4–3		
0010372		5–4		
0010373		6–5		
0010374		7–6		
0010375		8–7		
0010376		9–8		
0010377		10–9		
0010378	ER 20	2	21	31.5
0010379		3–2		
0010380		4–3		
0010381		5–4		
0010382		6–5		
0010383		7–6		
0010384		8–7		
0010385		9–8		
0010386		10–9		
0010387		11–10		
0010388		12–11		
0010389		13–12		
0010390	ER 25	2	26	34
0010391		3–2		
0010392		4–3		
0010393		5–4		
0010394		6–5		
0010395		7–6		
0010396		8–7		
0010397		9–8		
0010398		10–9		
0010399		11–10		

Sip. No	Tip	d	D	L
0010400	ER 25	12–11	26	34
0010401		13–12		
0010402		14–13		
0010403		15–14		
0010404		16–15		
0010405	ER 32	2	33	40
0010406		3–2		
0010407		4–3		
0010408		5–4		
0010409		6–5		
0010410		7–6		
0010411		8–7		
0010412		9–8		
0010413		10–9		
0010414		11–10		
0010415		12–11		
0010416		13–12		
0010417		14–13		
0010418		15–14		
0010419		16–15		
0010420		17–16		
0010421		18–17		
0010422		19–18		
0010423		20–19		
0010424	ER 40	4–3	41	46
0010425		5–4		
0010426		6–5		
0010427		7–6		
0010428		8–7		
0010429		9–8		
0010430		10–9		
0010431		11–10		
0010432		12–11		
0010433		14–13		
0010434		16–15		
0010435		18–17		
0010436		20–19		
0010437		22–21		

Sip. No	Tip	d	D	L
0010438	ER 40	24–23	41	46
0010439		26–25		
0010440	462E	4–3.5	35.05	52
0010441		5–4.5		
0010442		6–5.5		
0010443		8–7.5		
0010444		9–8.5		
0010445		10–9.5		
0010446		11–10.5		
0010447		12–11.5		
0010448		14–13.5		
0010449		16–15.5		
0010450		18–17.5		
0010451		20–19.5		
0010452		22–21.5		
0010453		24–23.5		
0010454		24–23		
0010455		25–24.5		
0010456	467E	5–4.5	43.7	60
0010457		6–5.5		
0010458		7–6.5		
0010459		8–7.5		
0010460		9–8.5		
0010461		10–9.5		
0010462		11–10.5		
0010463		12–11.5		
0010464		14–13.5		
0010465		16–15.5		
0010466		18–17.5		
0010467		20–19.5		
0010468		22–21.5		
0010469		24–23.5		
0010470		25–24.5		
0010471		28–27.5		
0010472		30–29.5		
0010473		32–31.5		

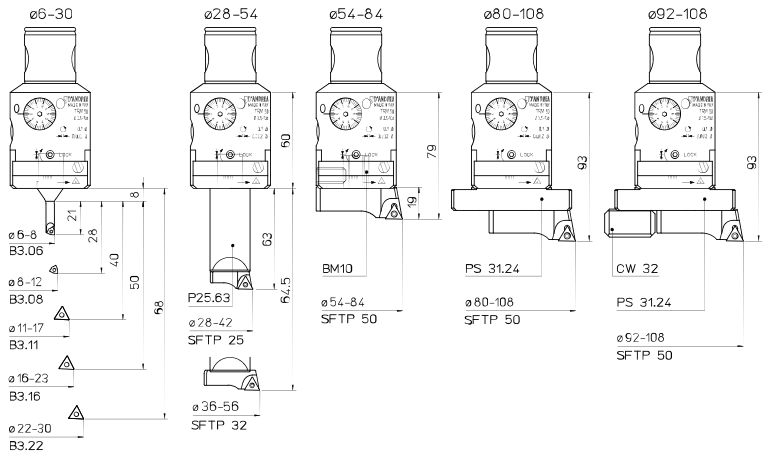


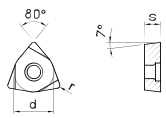
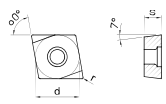
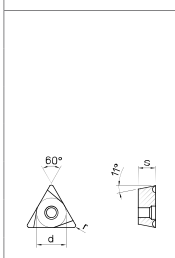


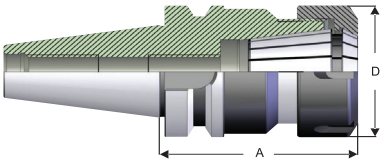


D'ANDREA TRM50 Bara Seti

Sip. No
0010474



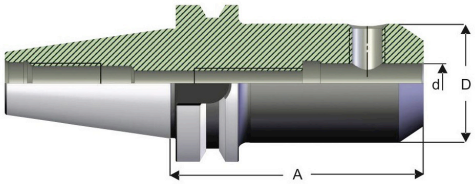
Elmas Uç	Kod	d	s	r			DP 300	DP 100	DP 100T	DK 100	D20 MDC	D20 CBN	D25 CBN
	WCGT 020102L	3.97	1.59	0.2	TS 21	TORX T06	•	•		•			
	WCGT 020104L			0.4			•	•		•			
	CCGT 060200L - 10	6.35	2.38	0	TS 25	TORX T08	•	•	•	•			
	CCGT 060202L			0.2			•	•	•	•			
	CCGT 060204L			0.4			•	•	•	•			
	CCGT 09T302L	9.53	3.97	0	TS 4	TORX T15	•	•	•	•			
	CCGT 09T304L			0.2			•	•	•	•			
	TPGX 090200L-10	5.56	2.38	0.4	CS 250T	TORX T08	•	•	•	•			
	TPGX 090202			0.2							•	•	•
	TPGX 090202L						•	•	•	•			
	TPGX 090204			0.4							•	•	•
	TPGX 090204L						•	•	•	•			
	TPGX 110300L-10	6.35	3.18	0	CS 300890T	TORX T08	•	•	•	•			
	TPGX 110302			0.2							•	•	•
	TPGX 110302L						•	•	•	•			
	TPGX 110304			0.4							•	•	•
	TPGX 110304L						•	•	•	•			
ST : Çelik	GG : Döküm			AL : Alüminyum			ST			GG / AA	AL	ST	





BT / BBT Pens Başlıkları

Sip. No	Tip	d	D	A
0010475	BT30 / 462	2.....25 mm	60	80
0010476	BT40 / 462	2.....25 mm	60	70
0010477	BT40 / 467	2.....32 mm	72	90
0010478	BT50 / 462	2.....25 mm	60	85
0010479	BT50 / 467	2.....32 mm	72	90
0010480	BT30 ER 16 / 426	2.....10 mm	32	70
0010481	BT30 ER 25 / 430	2.....16 mm	42	70
0010482	BT30 ER 32 / 470	2.....20 mm	50	70
0010483	BT30 ER40 / 472	2.....26 mm	63	70
0010484	BT40 ER 16 / 426	2.....10 mm	32	63
0010485	BT40 ER 25 / 430	2.....16 mm	42	60
0010486	BT40 ER 32 / 470	2.....20 mm	50	70
0010487	BT40 ER 40 / 472	2.....26 mm	63	80
0010488	BT50 ER 16 / 426	2.....10 mm	32	70
0010489	BT50 ER 25 / 430	2.....16 mm	42	70
0010490	BT50 ER 32 / 470	2.....20 mm	50	70
0010491	BT50 ER 40 / 472	2.....26 mm	63	80
0010492	BT30 ER 16 / 426	2.....10 mm	32	100
0010493	BT30 ER 25 / 430	2.....16 mm	42	100
0010494	BT30 ER 32 / 470	2.....20 mm	50	100
0010495	BT30 ER 40 / 472	2.....26 mm	63	100
0010496	BT40 ER 16 / 426	2.....10 mm	32	100
0010497	BT40 ER 16 / 426 (mini)	2.....10 mm	22	100
0010498	BT40 ER 25 / 430	2.....16 mm	42	100
0010499	BT40 ER 32 / 470	2.....20 mm	50	100
0010500	BT40 ER 40 / 472	2.....26 mm	63	100
0010501	BT50 ER 16 / 426	2.....10 mm	32	100
0010502	BT50 ER 25 / 430	2.....16 mm	42	100
0010503	BT50 ER 32 / 470	2.....20 mm	50	100
0010504	BT50 ER 40 / 472	2.....26 mm	63	100
0010505	BT40 ER 16 / 426	2.....10 mm	32	160
0010506	BT40 ER 16 / 426 (mini)	2.....10 mm	22	160
0010507	BT40 ER 25 / 430	2.....16 mm	42	160
0010508	BT40 ER 32 / 470	2.....20 mm	50	160
0010509	BT40 ER 40 / 472	2.....26 mm	63	160
0010510	BT50 ER 16 / 426	2.....10 mm	32	160
0010511	BT50 ER 16 / 426 (mini)	2.....10 mm	22	160
0010512	BT50 ER 25 / 430	2.....16 mm	42	160
0010513	BT50 ER 32 / 470	2.....20 mm	50	160
0010514	BT50 ER 40 / 472	2.....26 mm	63	160



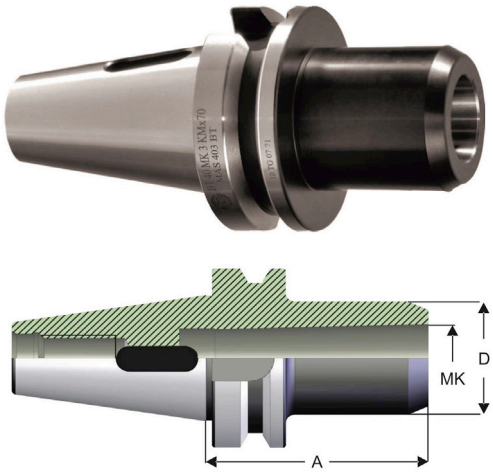


BT / BBT Veldon Tutucular

Sip. No	Tip	d	D	A
0010515	BT 30	6	25	50
0010516	BT 30	8	28	50
0010517	BT 30	10	35	50
0010518	BT 30	12	42	50
0010519	BT 30	14	44	50
0010520	BT 30	16	48	63
0010521	BT 30	18	50	63
0010522	BT 30	20	52	63
0010523	BT 40	6	25	50
0010524	BT 40	8	28	50
0010525	BT 40	10	35	63
0010526	BT 40	12	42	63
0010527	BT 40	14	44	63
0010528	BT 40	16	48	63
0010529	BT 40	18	50	63
0010530	BT 40	20	52	63
0010531	BT 40	25	63	90
0010532	BT 40	32	72	100
0010533	BT 40	40	79	120
0010534	BT 40	5	25	100

Sip. No	Tip	d	D	A
0010535	BT 40	6	25	100
0010536	BT 40	8	28	100
0010537	BT 40	10	35	100
0010538	BT 40	12	42	100
0010539	BT 40	14	44	100
0010540	BT 40	16	48	100
0010541	BT 40	18	50	100
0010542	BT 40	20	52	100
0010543	BT 40	6	25	160
0010544	BT 40	8	28	160
0010545	BT 40	10	35	160
0010546	BT 40	12	42	160
0010547	BT 40	14	44	160
0010548	BT 40	16	48	160
0010549	BT 40	18	50	160
0010550	BT 40	20	52	160
0010551	BT 40	25	63	160
0010552	BT 40	32	72	160
0010553	BT 50	6	25	63
0010554	BT 50	8	28	63

Sip. No	Tip	d	D	A
0010555	BT 50	10	35	63
0010556	BT 50	12	42	80
0010557	BT 50	14	44	80
0010558	BT 50	16	48	80
0010559	BT 50	18	50	80
0010560	BT 50	20	52	80
0010561	BT 50	25	65	100
0010562	BT 50	32	72	105
0010563	BT 50	40	80	110
0010564	BT 50	6	25	160
0010565	BT 50	8	28	160
0010566	BT 50	10	35	160
0010567	BT 50	12	42	160
0010568	BT 50	16	48	160
0010569	BT 50	20	52	160
0010570	BT 50	25	65	160
0010571	BT 50	32	72	160
0010572	BT 50	40	80	160

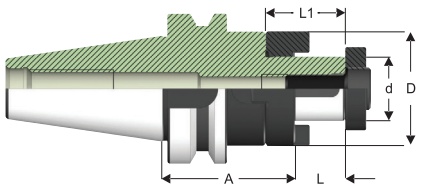


Sipariş	Tip	MK	A	D
0010573	BT 30	1	25	45
0010574	BT 30	2	32	60
0010575	BT 30	3	40	75
0010576	BT 40	1	25	50
0010577	BT 40	2	32	50
0010578	BT 40	3	40	70
0010579	BT 40	4	48	95
0010580	BT 50	1	25	45
0010581	BT 50	2	32	60
0010582	BT 50	3	40	65
0010583	BT 50	4	48	95
0010584	BT 50	5	63	105

BT / BBT Kamalı Mors Adaptörü

TAKIM TUTUCULAR

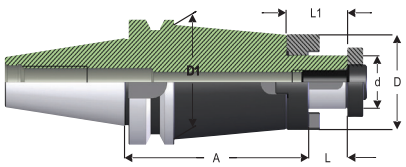




Kombine Tarama Başlıkları

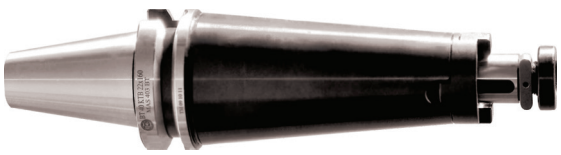
Sip. No	Tip	d	D	A	L	L1
0010585	BT 30 / K.T.B. 16	16	32	45	17	27
0010586	BT 30 / K.T.B. 22	22	40	47	19	31
0010587	BT 30 / K.T.B. 27	27	48	49	21	33
0010588	BT 40 / K.T.B. 16	16	32	55	17	27
0010589	BT 40 / K.T.B. 22	22	40	55	19	31
0010590	BT 40 / K.T.B. 27	27	48	55	21	33
0010591	BT 40 / K.T.B. 32	32	58	60	24	38
0010592	BT 40 / K.T.B. 40	40	70	60	27	41
0010593	BT 50 / K.T.B. 16	16	32	70	17	27
0010594	BT 50 / K.T.B. 22	22	40	70	19	31
0010595	BT 50 / K.T.B. 27	27	48	70	21	33
0010596	BT 50 / K.T.B. 32	32	58	70	24	38
0010597	BT 50 / K.T.B. 40	40	70	70	27	41

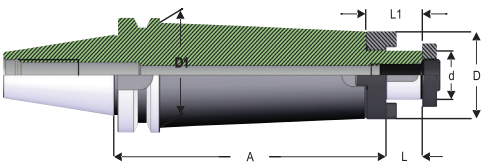




Kombine Tarama Başlıkları

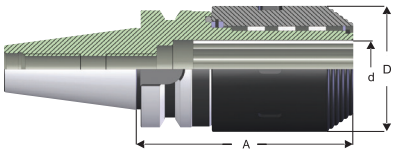
Sip. No	Tip	d	D	A	L	L1	D1
0010598	BT 40 / K.T.B. 16	16	32	100	17	27	38
0010599	BT 40 / K.T.B. 22	22	40	100	19	31	48
0010600	BT 40 / K.T.B. 27	27	48	100	21	33	58
0010601	BT 40 / K.T.B. 32	32	58	100	24	38	61
0010602	BT 40 / K.T.B. 40	40	70	100	27	41	70
0010603	BT 50 / K.T.B. 16	16	32	100	17	27	38
0010604	BT 50 / K.T.B. 22	22	40	100	19	31	48
0010605	BT 50 / K.T.B. 27	27	48	100	21	33	58
0010606	BT 50 / K.T.B. 32	32	58	100	24	38	68
0010607	BT 50 / K.T.B. 40	40	70	100	27	41	80





Kombine Tarama Başlıkları

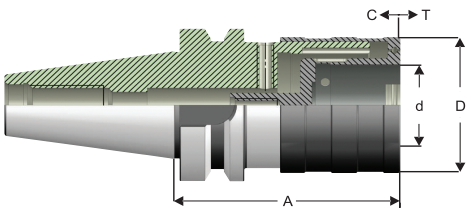
Sip. No	Tip	d	D	A	L	L1	D1
0010608	BT 40 / K.T.B. 16	16	32	160	17	27	38
0010609	BT 40 / K.T.B. 22	22	40	160	19	31	48
0010610	BT 40 / K.T.B. 27	27	48	160	21	33	58
0010611	BT 40 / K.T.B. 32	32	58	160	24	38	61
0010612	BT 40 / K.T.B. 40	40	70	160	27	41	70
0010613	BT 50 / K.T.B. 16	16	32	160	17	27	38
0010614	BT 50 / K.T.B. 22	22	40	160	19	31	48
0010615	BT 50 / K.T.B. 27	27	48	160	21	33	58
0010616	BT 50 / K.T.B. 32	32	58	160	24	38	68
0010617	BT 50 / K.T.B. 40	40	70	160	27	41	80





Rulmanlı Pens Tutucu

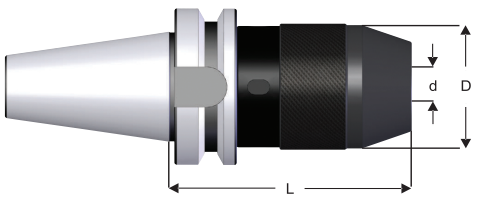
Sip. No	Tip	Kapasite	D	A
0010618	BT 40	6.....20	75	49
0010619		6.....32	90	68
0010620	BT 50	6.....20	90	49
0010621		6.....32	95	68





Emniyetli Tip Kılavuz Çekme Başlığı

Sip. No	Tip	d	A	D	C	T
0010622	BT 30 M2 / M14	19	64	38	7	7
0010623	BT 30 M5 / M24	31	95	54	12	12
0010624	BT 40 M2 / M14	19	67	38	7	7
0010625	BT 40 M5 / M24	31	93	54	12	12
0010626	BT 40 M14 / M36	48	136	78	17.5	17.5
0010627	BT 50 M2 / M14	19	82	38	7	7
0010628	BT 50 M5 / M24	31	102	54	12	12
0010629	BT 50 M14 / M36	48	142	78	17.5	17.5

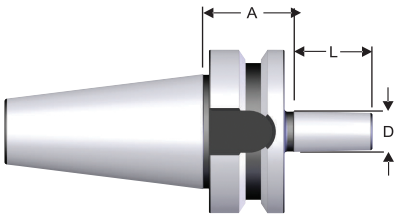




NC Mandren Tutucu

Sip. No	Tip	D	A	L
0010630	BT 30	1.....16	51	112
0010631	BT 40	1.....16	51	97
0010632	BT 50	1.....16	51	108

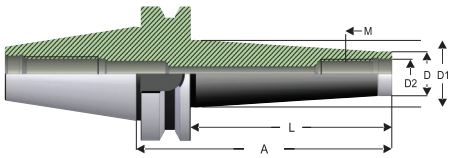




Mandren Adaptörü

Sip. No	Tip	D	A	L
0010633	BT 30	B12	25	18.5
0010634		B16		24
0010635	BT 40	B12	32	18.5
0010636		B16		24
0010637		B18		32
0010638	BT 50	B16	43	24
0010639		B18		32





Vidalı Takım Tutucu

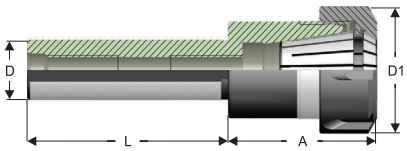
Sip. No	Tip	M	D	D1	A	L	D2
0010640	BT 40	M8	13	23	77	50	8.5
0010641				25	127	100	
0010642				30	177	150	
0010643		M10	18	23	77	50	10.5
0010644				32	127	100	
0010645				36	177	150	
0010646		M12	21	25	77	50	12.5
0010647				32	127	100	
0010648				40	177	150	
0010649		M16	29	34	102	75	17
0010650				40	152	125	
0010651	BT 50	M8	13	25	138	100	8.5
0010652				30	188	150	
0010653		M10	18	32	138	100	10.5
0010654				36	188	150	
0010655		M12	21	33	138	100	12.5
0010656				40	188	150	
0010657		M16	29	36	138	100	17
0010658				42	188	150	



Pens Takımları

Sip. No	Tip	MK	D
0010659	BT 30 / 462	4.....25	16
0010660	BT 40 / 462	4.....25	16
0010661	BT 40 / 467	5.....32	16
0010662	BT 50 / 462	4.....25	16
0010663	BT 50 / 467	5.....32	16
0010664	BT 30 ER 25 / 430	3.....16	14
0010665	BT 30 ER 32 / 470	3.....20	14
0010666	BT 30 ER 40 / 472	4.....26	16
0010667	BT 40 ER 25 / 430	3.....16	14

Sip. No	Tip	MK	D
0010668	BT 40 ER 32 / 470	3.....20	14
0010669	BT 40 ER 40 / 472	4.....26	16
0010670	BT 50 ER 25 / 430	3.....16	14
0010671	BT 50 ER 32 / 470	3.....20	14
0010672	BT 50 ER 40 / 472	4.....26	16
0010673	BT 40 Rulmanlı	6.....20	5
0010674	BT 40 Rulmanlı	6.....32	7
0010675	BT 50 Rulmanlı	6.....20	5
0010676	BT 50 Rulmanlı	6.....32	7



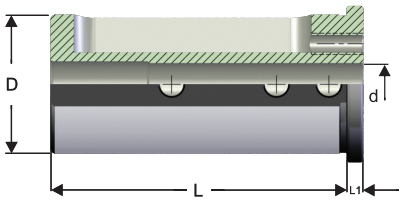


Silindirik Şaftlı Pens Başlığı

Sipariş	Tip	Kapasaite	D	L	A	D1
0010677	ER 16 / 426	2.....10 mm	20	70	30	32
0010678				100		
0010679				100		22
0010680				150		
0010681				150		32
0010682				200		22
0010683	ER 20 / 428	2.....12 mm	20	70	45	34
0010684				70		
0010685				150		
0010686	ER 25 / 430	2.....16 mm	20	70	52	42
0010687				150		
0010688	ER 32 / 470	2.....20 mm	20	70	55	50

Sipariş	Tip	Kapasaite	D	L	A	D1
0010689	ER 32 / 470	2.....20 mm	20	150	55	50
0010690	ER 16 / 426	2.....10 mm	25	70	32	32
0010691				150		
0010692	ER 20 / 428	2.....12 mm	25	70	35	34
0010693				150		
0010694	ER 25 / 430	2.....16 mm	25	70	50	42
0010695				150		
0010696	ER 32 / 470	2.....20 mm	25	70	55	50
0010697				150		
0010698	ER 16 / 426	2.....10 mm	32	80	32	32
0010699	ER 25 / 430	2.....16 mm	32	80	32	42
0010700				150		

Sipariş	Tip	Kapasaite	D	L	A	D1
0010701	ER 32 / 470	2.....20 mm	32	80	52	50
0010702				150		
0010703	ER 40 / 472	2.....26 mm	32	80	63	63
0010704				150		
0010705	ER 25 / 430	2.....16 mm	40	85	32	42
0010706				150		
0010707	ER 32 / 470	2.....20 mm	40	85	35	50
0010708				150		
0010709	ER 40 / 472	2.....26 mm	40	85	45	63
0010710				150		





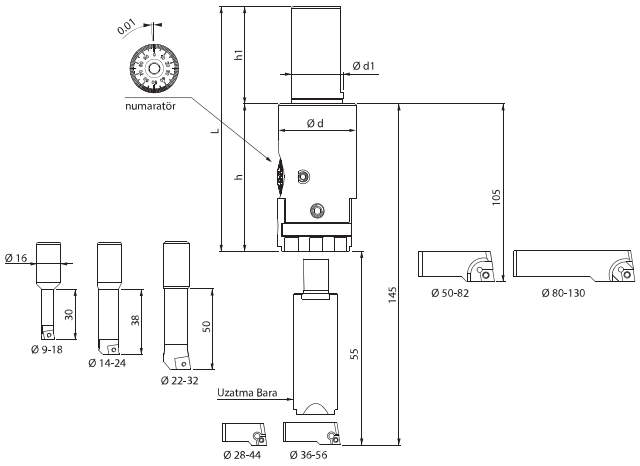
Silindirik Şaftlı Redüksiyon Kovanı

Sip. No	d	D	L	L1
0010711	6	20	40	5
0010712	8			
0010713	10			
0010714	12			
0010715	16			
0010716	6	25	45	
0010717	8			
0010718	10			
0010719	12			
0010720	16			
0010721	20			

Sip. No	d	D	L	L1
0010722	6	32	65	5
0010723	8			
0010724	10			
0010725	12			
0010726	16			
0010727	20			
0010728	25			
0010729	8	40	75	
0010730	10			
0010731	12			
0010732	16			

Sip. No	d	D	L	L1
0010733	20	40	75	5
0010734	25			
0010735	32			
0010736	8	50	90	
0010737	10			
0010738	12			
0010739	16			
0010740	20			
0010741	25			
0010742	32			
0010743	40			

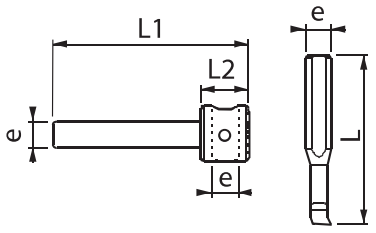


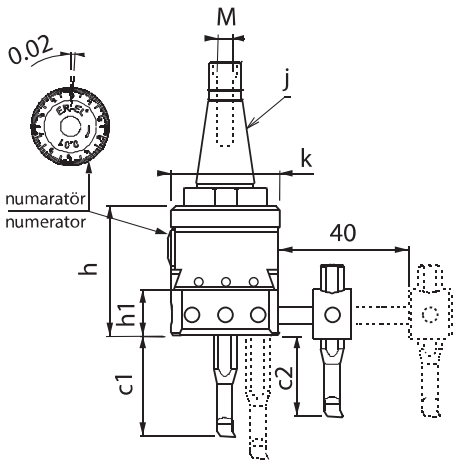


2385–Hassas Delik İşleme Seti

Sip. No	d	d1	h	h1	L
0010744	48	32	91	60	151







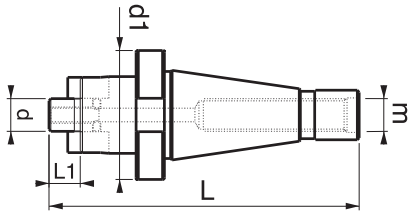
2390–Delik İşleme Aparatı

Sip. No	J x M	k	h	h1	e	L	L1	L2
0010745	ISO30–M12	83	99	35	18	85 95 132	128	26
0010746	ISO40–M16							
0010747	ISO50–M24							
0010748	BT40–M16							

Sip. No	J x M	k	h	h1	e	L	L1	L2
0010749	BT50–M24	83	99	35	18	85 95 132	128	26
0010750	SK40–M16							
0010751	SK50–M24							
0010752	MK4–M16							

Sip. No	J x M	k	h	h1	e	L	L1	L2
0010753	MK4–Kamalı	83	99	35	18	85 95 132	128	26
0010754	MK5–M20							
0010755	MK5–Kamalı							





2410–Freze Tarama Başlığı Tutucusu

Sip. No	Tip	d	d1	L	L1	m
0010756	ISO 30	16	48	125	17	M12
0010757	ISO 30	22	48	125	19	M12
0010758	ISO 30	27	48	125	21	M12
0010759	ISO 30	32	63.5	125	22	M12

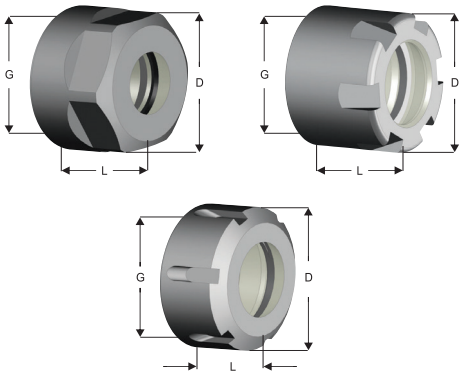
Sip. No	Tip	d	d1	L	L1	m
0010760	ISO 40	16	63.5	153	17	M16
0010761	ISO 40	22	63.5	153	19	M16
0010762	ISO 40	27	63.5	153	19	M16
0010763	ISO 40	32	63.5	153	24	M16
0010764	ISO 40	40	73.5	153	27	M16

Sip. No	Tip	d	d1	L	L1	m
0010765	ISO 50	16	98	195	17	M24
0010766	ISO 50	22	98	195	19	M24
0010767	ISO 50	27	98	195	21	M24
0010768	ISO 50	32	98	195	24	M24
0010769	ISO 50	40	98	195	27	M24



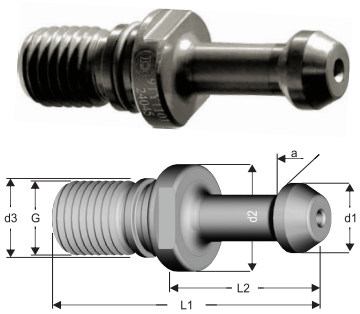
Ay Anahtarları

Sip. No	Tip	d	D
0010770	Ay Anahtarı / 415	40	42
0010771	Ay Anahtarı Rumanlı Takım için (6.....20 mm)	45	50
0010772	Ay Anahtarı / 440	45	50
0010773	Ay Anahtarı / 462	58	62
0010774	Ay Anahtarı / 467	68	75
0010775	Ay Anahtarı Rumanlı Takım için (6.....32 mm)	68	75
0010776	Ay Anahtarı / 468	85	90
0010777	426 (ER 16) Kapak Anahtarı	-	22
0010778	426 (ER 16) Kapak Anahtarı	-	32
0010779	428 (ER 20) Kapak Anahtarı	-	35
0010780	430 (ER 25) Kapak Anahtarı	-	42
0010781	470 (ER 32) Kapak Anahtarı	-	50
0010782	472 (ER 40) Kapak Anahtarı	-	63



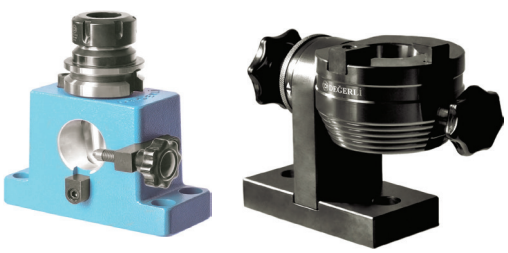
Pens Kapakları

Sip. No	Tip	Kapasite	D	G	L
0010783	407 Kapak	2.....12 mm	35	M27 x 1.5	20
0010784	415 Kapak	2.....16 mm	43	M33 x 1.5	24
0010785	440 Kapak	2.....20 mm	50	M42 x 2	28
0010786	462 Kapak	2.....25 mm	60	M48 x 2	30
0010787	467 Kapak	2.....32 mm	72	M60 x 2.5	33.5
0010788	468 Kapak	2.....40 mm	85	M68 x 2.5	37
0010789	ER 16 / 426 Kapak	2.....10 mm	28	M22 x 1.5	17.5
0010790	ER 16 / 426 Mini Kapak	2.....10 mm	22	M19 x 1	18
0010791	ER 16 / 426 Kapak	2.....10 mm	32	M22 x 1.5	17.5
0010792	ER 20 / 428 Kapak	2.....12 mm	34	M25 x 1.5	19
0010793	ER 20 / 428 Mini Kapak	2.....12 mm	28	M24 x 1	19
0010794	ER 25 / 430 Kapak	2.....16 mm	42	M32 x 1.5	20
0010795	ER 32 / 470 Kapak	2.....20 mm	50	M40 x 1.5	22.5
0010796	ER 40 / 472 Kapak	2.....26 mm	63	M50 x 1.5	25.5



Pullstad

Sip. No	Tip	d1	d2	L1	L2	G	a
0010797	CAT 40 MAZAK Pullstad	18.8	22	41.25	16.1	M16	45°
0010798	BT 40 MAZAK Pullstad	18.8	22.5	44.1	19.1	M16	45°
0010799	CAT 50 MAZAK Pullstad	29.1	37	65.5	25.55	M24	45°
0010800	SK 30 Pullstad	13	17	44	24	M12	15°
0010801	SK 40 Pullstad	19	23	54	26	M16	15°
0010802	SK 50 Pullstad	28	36	74	34	M24	15°
0010803	BT 30 Pullstad	11	16.5	43	23	M12	45°
0010804	BT 40 Pullstad	15	23	60	35	M16	45°
0010805	BT 50 Pullstad	23	38	85	45	M24	45°
0010806	BT 40 I.S.V Pullstad	15	23	60	35	M16	45°
0010807	BT 50 I.S.V Pullstad	23	38	85	45	M24	45°

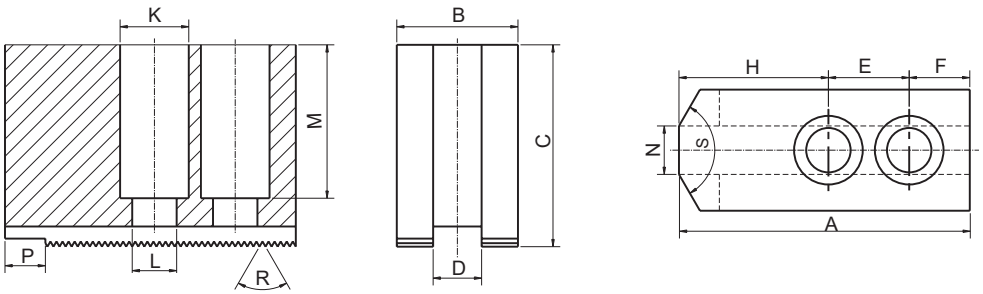


Montaj Aparatı

Sip. No	Tip
0010808	ISO / BT 30 Alüminyum Montaj Aparatı
0010809	ISO / BT 40 Alüminyum Montaj Aparatı
0010810	ISO / BT 50 Alüminyum Montaj Aparatı
0010811	ISO / BT 30 Çelik Montaj Aparatı
0010812	ISO / BT 40 Çelik Montaj Aparatı
0010813	ISO / BT 50 Çelik Montaj Aparatı



Isıl işlemden sonra malzemenin yüzey sertlik değeri HRC 60° a ulaşabilir.
*Tablolarda bulunmayan diğer standart ölçülü yumuşak ayaklar için lütfen bizimle irtibata geçiniz.

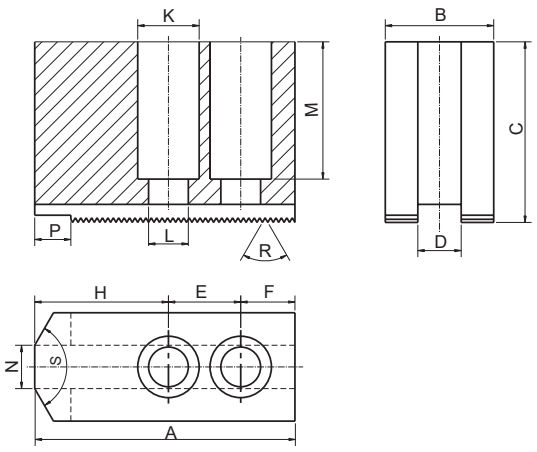


Standart Tip Yumuşak Ayaklar

Sip. No	Ayna Tipi	Ayna Çapı	Hatve (P)	A	B	C	D H7	E	F	H	Civata	K	L	M	N	Sº	Rº
0010814	Kitagawa Matsumato Strong	05''	1.5 x 60º	60	25	30	10	14	16	30	M10	13.5	8.5	15	12	120º	60º
0010815		06''		78	30	30	12	20	18	40	M10	17	11	18			
0010816		08''		98	38	38	14	25	25	48	M12	19	13	20			
0010817	Howa AutoBlok	08''		98	38	38	16	25	25	48	M12	19	13	20			
0010818				98	38	38	17	23	25	50	M12	19	13	20			
0010819	Kitagawa Matsumato Strong Howa	10''		118	43	43	16	30	30	58	M12	19	13	25	15		
0010820				118	43	43	18	30	30	58	M14	23	15	25			
0010821		12''		135	48	48	18	30	30	75	M14	23	15	33			
0010822				135	48	48	21	30	30	75	M16	25	17	33			
0010823		15''		165	58	58	22	43	37	75	M20	32	21	38			
0010824		18''		165	58	58	25.5	43	37	85	M20	32	21	38			
0010825		21''	3 x 60º	180	68	68	25	60	35	85	M20	32	21	48			

Sip. No	Ayna Tipi	Ayna Çapı	Hatve (P)	A	B	C	D H7	E	F	H	Civata	K	L	M	N	Sº	Rº
0010826	Autoblok 90° SMW	06''	1/16'' x 90º	78	30	30	14	20	18	40	M10	17	11	18	15	120º	90º
0010827		08''		98	38	38	17	23	25	50	M12	19	13	20	18		
0010828		10''		115	43	43	21	30	30	55	M16	25	17	25	22		
0010829		12''		135	48	48	21	30	30	75	M16	25	17	30	22		
0010830		15''		140	58	58	21	30	30	80	M16	25	17	40	22		
0010831		15''	3/32'' x 90º	140	58	58	25.5	38	27	75	M20	32	21	38	-	-	
0010832		18''		170	68	68	25.5	38	37	95	M20	32	21	48	-	-	
0010833		21''		180	68	68	28	38	42	100	M20	32	21	48	-	-	





Yüksek Tip Yumuşak Ayaklar

Isıl işlemden sonra malzemenin yüzey sertlik değeri HRC 60° a ulaşabilir.

*Tablolarda bulunmayan diğer standart ölçülü yumuşak ayaklar için lütfen bizimle irtibata geçiniz.

Sip. No	Ayna Tipi	Ayna Çapı	Hatve (P)	A	B	C	D H7	E	F	H	Civata	K	L	M	N	Sº
0010834	Kitagawa Matsumoto Strong	6"	1,5 x 60°	78	30	50	12	20	18	35	40	17	11	M10	12	120°
0010835						60				45						
0010836						80				60						
0010837	Kitagawa Matsumoto Strong Autogrip	8"	1,5 x 60°	98	38	60	14	25	25	40	48	19	13	M12	12	120°
0010838						80				60						
0010839						100				80						
0010840						120				95						
0010841	Howa	8"	1,5 x 60°	98	38	60	16	25	25	40	48	19	13	M12	12	120°
0010842						80				60						
0010843						100				80						
0010844						120				95						
0010845	Autoblok	8"	1/16" x 90°	98	38	60	17	23	25	40	50	19	13	M12	12	120°
0010846						80				60						
0010847						100				80						
0010848						120				95						
0010849	Kitagawa Matsumoto Strong Autogrip	10"	1,5 x 60°	115	43	70	16	30	30	50	55	19	13	M10	15	120°
0010850						100				80						
0010851						125				100						
0010852						150				120						
0010853	Autoblok		1/16" x 90°			70	21			50		25	17	M16		
0010854	Autoblok		1.5 x 60°			70	21			50		25	17	M16		
0010855	Kitagawa Matsumoto Strong Autogrip	12"	1,5 x 60°	135	48	80	18	30	30	60	75	23	15	M14	18	120°
0010856						100				80						
0010857						130				100						
0010858						160				120						
0010859	Kitagawa Matsumoto Strong Autogrip	12"	1,5 x 60°	135	48	80	21	30	30	60	75	25	17	M16	20	120°
0010860						100				80						
0010861						130				100						
0010862						160				120						
0010863	Kitagawa Matsumoto Strong Autogrip	15"	1,5 x 60°	165	58	100	22	43	37	80	85	32	21	M20	22	120°
0010864						130				100						
0010865						160				120						
0010866						200				150						
0010867	Kitagawa Matsumoto Strong Autogrip	18"	1,5 x 60°	165	58	100	25,5	43	37	80	85	32	21	M20	25	120°
0010868						130				100						
0010869						160				120						
0010870						200				150						
0010871	Kitagawa Matsumoto Strong Autogrip	21"	3 x 60°	180	68	100	25	60	35	70	85	32	21	M20	25	120°
0010872						130				100						
0010873						160				120						
0010874						200				150						
0010875						250				180						





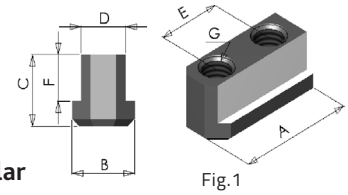
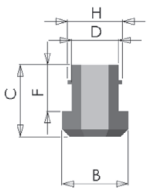


Fig.1



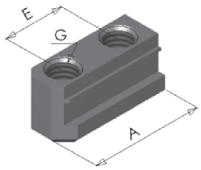
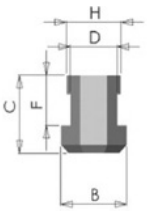


Fig.2



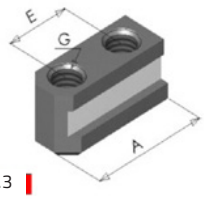


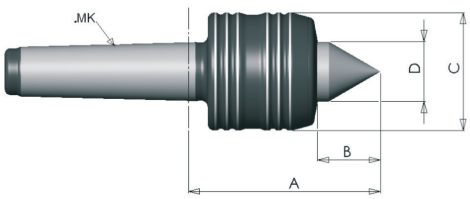
Fig.3

T-Somunlar

HRC 45° ~ 48° ye sertleştirilmiştir. Parçanın yüzeyi siyah oksit kaplamadır.
Bunun yapılmasının amacı, parçayı oksidasyondan korumaktır. Hidrolik aynalar için uygundur.

Sip. No	Marka	Ayna Çapı	Figür	A	B	C	D H7	E	F	G	H	Ağırlık
0010876	Kitagawa Matsumato Strong	06"	1	36	17	18.5	12	20	12	M10	-	0.05
0010877		08"	1	46.5	20.5	20.5	14	25	12	M12	-	0.09
0010878		08"	1	48	20.5	25.5	14	25	16	M12	-	0.12
0010879		10"	1	51	22.5	21.5	16	30	13	M12	-	0.13
0010880		10"	1	55	22.5	25.5	16	30	16.5	M12	-	0.16
0010881		12"	1	55.5	26.5	33.5	18	30	20	M14	-	0.24
0010882		12"	1	55.5	29.5	27.5	21	30	16	M16	-	0.21
0010883	Autoblok	06"	2	36	17	18.5	12	20	12	M10	14	0.05
0010884		08"	2	45	19	20.5	14	30	13	M12	17	0.08

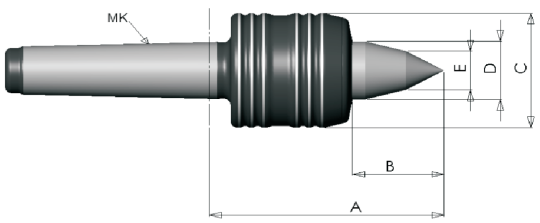




CNC Döner Punta–60°

Sip. No	MK	A	B	C	D	E	Maks. Salgı	Maks. Devir
0010885	MK3	71	25	48	25	-	0.005	4600
0010886	MK4	105	37	63	32	-	0.005	3800
0010887	MK5	120	47	73	40	-	0.005	3300

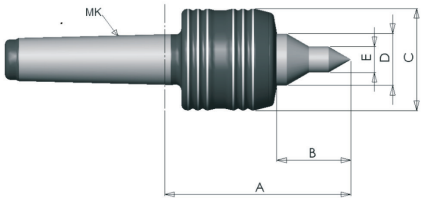




2 Kademeli CNC Döner Punta

Sip. No	MK	A	B	C	D	E	Maks. Salgı	Maks. Devir
0010888	MK3	80	34	48	25	12	0.005	4600
0010889	MK4	116	46	63	32	16 / 12	0.005	3800
0010890	MK5	131	58	73	40	18 / 14	0.005	3300

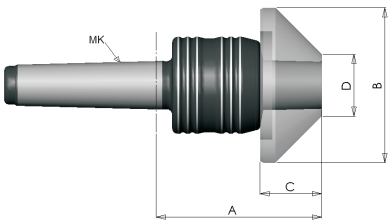


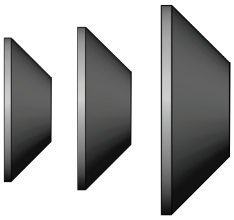


3 Kademeli CNC Döner Punta

Sip. No	MK	A	B	C	D	E	Maks. Salgı	Maks. Devir
0010891	MK3	80	34	48	25	12	0.005	4600
0010892	MK4	112	44	63	32	16 / 12	0.005	3800
0010893	MK5	131	58	73	40	18 / 14	0.005	3300





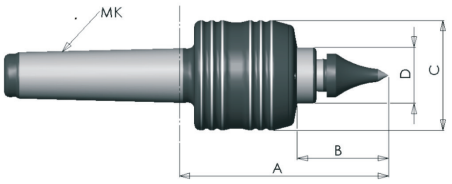


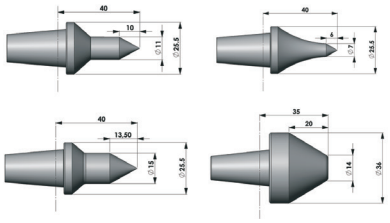
Takma Uçlu Boru Puntası

Sip. No	MK	A	B	C	D	Maks. Salgı	Maks. Devir
0010894	MK4	110	78	28	34	0.01	3800
0010895	MK4	110	98	32	44	0.01	3300
0010896	MK4	123	148	50	60	0.01	3800

Sip. No	MK	A	B	C	D	Maks. Salgı	Maks. Devir
0010897	MK5	123	78	28	34	0.01	3300
0010898	MK5	123	98	32	44	0.01	3800
0010899	MK5	123	148	50	60	0.01	3300







Takma Uçlu Boru Puntası

Sip. No	MK	A	B	C	D	Maksimum Salgı	Maksimum Devir
0010900	MK3	71	25	48	25	0.01	4600
0010901	MK4	105	37	63	32	0.01	3800
0010902	MK5	120	47	73	40	0.01	3300



Çoklu Köşe Açma Aparatı

CNC tornalarda tarete bağlanarak kullanılır. Delikli parçalara çoklu köşe (özellikle de imbus yuvası) açmanıza yardımcı olur. Gövde sertleştirilmiş ve taşlanmıştır. Gövde içerisinde yüksek hassasiyetli rulmanlar kullanılmaktadır. Zımbalar yüksek hız çeliğinden (HSS) yapılmıştır. Aşınmaya dayanıklıdır.Yüksek sıcaklıklarda mukavemetlidir. Silindirik ve mors konik olmak üzere 2 çeşit şaft seçeneği mevcuttur. Açılması istenen altı köşeye göre değişik ölçülerde zımbalarımız mevcuttur. Zımbaların max. basma kuvveti 800 daN' dur.

Sip. No	Şaft Çapı	Bağladığı Broş Çapı	Punta Gövde Çapı
0010903	12	08	39
0010904	16	08	39
0010905	19	08	39
0010906	20	08	39
0010907	22	08	39
0010908	25	08	39
0010909	25	12	54
0010910	32	12	54
0010911	40	12	54



Altı Köşe Broş Uçları

Sip. No	Broş Şaft Çapı	Broş Uç Çapı
0010912	08	1.5
0010913	08	2.0
0010914	08	2.5
0010915	08	3.0
0010916	08	3.5
0010917	08	4.0
0010918	08	5.0
0010919	08	6.0
0010920	08	1/8
0010921	08	1/4
0010922	12	3.0

Sip. No	Broş Şaft Çapı	Broş Uç Çapı
0010923	12	4.0
0010924	12	5.0
0010925	12	6.0
0010926	12	7.0
0010927	12	8.0
0010928	12	9.0
0010929	12	10.0
0010930	12	11.0
0010931	12	12.0
0010932	12	13.0
0010933	12	14.0



Yaylı Kılavuz Çekme Aparatı

Sip. No	Şaft Çapı	Bağladığı Pens
0010934	20	ER 16
0010935	20	ER 20
0010936	20	ER 25
0010937	20	ER 32
0010938	25	ER 16
0010939	25	ER 20
0010940	25	ER 25
0010941	25	ER 32
0010942	32	ER 16

Sip. No	Şaft Çapı	Bağladığı Pens
0010943	32	ER 20
0010944	32	ER 25
0010945	32	ER 32
0010946	32	ER 40
0010947	40	ER 32
0010948	40	ER 40
0010949	50	ER 32
0010950	50	ER 40



Silindir Şaftlı Pens Tutucu

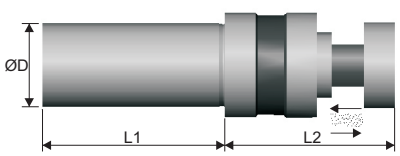
Sip. No	Şaft Çapı	Pens	Şaft Boyu
0010951	10	ER 08	95
0010952	12	ER 08	95
0010953	12	ER 11	50
0010954	12	ER 11	100
0010955	12	ER 11	150
0010956	16	ER 11	50
0010957	16	ER 11	100
0010958	16	ER 11	150
0010959	16	ER 16	50

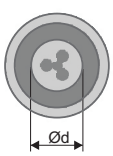
Sip. No	Şaft Çapı	Pens	Şaft Boyu
0010960	16	ER 16	100
0010961	16	ER 16	150
0010962	20	ER 16	50
0010963	20	ER 16	100
0010964	20	ER 16	150
0010965	20	ER 20	50
0010966	20	ER 25	50
0010967	20	ER 32	50
0010968	16	ER 16	50

Sip. No	Şaft Çapı	Pens	Şaft Boyu
0010969	25	ER 16	60
0010970	25	ER 16	100
0010971	25	ER 16	150
0010972	25	ER 20	60
0010973	25	ER 25	60
0010974	25	ER 32	60
0010975	25	ER 16	150
0010976	32	ER 20	70
0010977	32	ER 25	70

Sip. No	Şaft Çapı	Pens	Şaft Boyu
0010978	32	ER 32	70
0010979	32	ER 40	70
0010980	40	ER 25	80
0010981	40	ER 32	80
0010982	40	ER 40	80
0010983	50	ER 32	100
0010984	50	ER 40	100
0010985	50	ER 50	100
0010986	16	ER 16	50







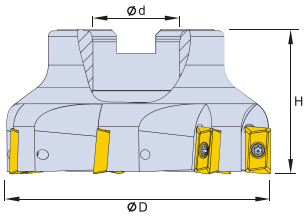
Yaylı Pafta Çekme Aparatı

Sip. No	D	d	L1	L2
0010987	20	20	70	65
0010988	20	25	70	65
0010989	20	30	70	65
0010990	20	38	70	68
0010991	20	45	70	75
0010992	20	55	70	76
0010993	25	20	70	65
0010994	25	25	70	65
0010995	25	30	70	65
0010996	25	38	70	68

Sip. No	D	d	L1	L2
0010997	25	45	70	76
0010998	25	55	70	75
0010999	25	65	70	80
0011000	32	20	70	65
0011001	32	25	70	65
0011002	32	30	70	65
0011003	32	38	70	68
0011004	32	45	70	76
0011005	32	55	70	76
0011006	32	65	70	80

TARAMA BAŞLIKLARI

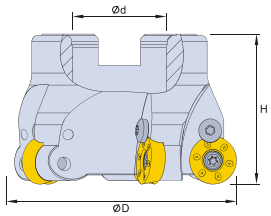




Tarama Başlıkları

Sip. No	Ürün Kodu	Ölçüler (mm)				Kullanılan Uç
		ØD	Ød	Z	H	
0011007	D040-16 Z05 AP10	40	16	5	40	AP 1003
0011008	D050-22 Z06 AP10	50	22	6	40	
0011009	D063-22 Z07 AP 10	63	22	7	40	
0011010	D080-32 Z08 AP 10	80	32	8	50	
0011011	D040-16 Z03 AP16	40	16	3	45	AP 1604
0011012	D040-16 Z04 AP16	40	16	4	45	
0011013	D050-22 Z04 AP16	50	22	4	45	
0011014	D050-22 Z05 AP16	50	22	5	45	
0011015	D063-22 Z05 AP16	63	22	5	45	
0011016	D063-22 Z06 AP16	63	22	6	45	
0011017	D080-32 Z06 AP16	80	32	6	52	
0011018	D080-32 Z07 AP16	80	32	7	52	
0011019	D100-32 Z07 AP16	100	32	7	52	
0011020	D100-32 Z08 AP16	100	32	8	52	
0011021	D125-40 Z09 AP16	125	40	9	62	
0011022	D160-40 Z10 AP16	160	40	10	62	

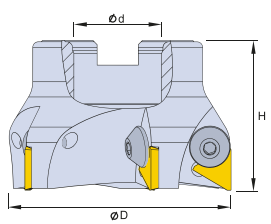




Tarama Başlıkları

Sip. No	Ürün Kodu	Ölçüler (mm)				Kullanılan Uç
		ØD	Ød	Z	H	
0011023	D040-16Z03RD10	40	16	3	40	RD 1003
0011024	D040-16Z04RD10	40	16	4	40	
0011025	D050-22Z04RD10	50	22	4	40	
0011026	D050-22Z05RD10	50	22	5	40	
0011027	D063-22Z05RD10	63	22	5	40	
0011028	D063-22Z06RD10	63	22	6	40	
0011029	D080-32Z06RD10	80	32	6	50	
0011030	D080-32Z07RD10	80	32	7	50	
0011031	D100-32Z07RD10	100	32	7	50	
0011032	D100-32Z08RD10	100	32	8	50	
0011033	D040-16Z03RD12	40	16	3	40	RD 12T3
0011034	D040-16Z04RD12	40	16	4	40	
0011035	D050-22Z04RD12	50	22	4	40	
0011036	D050-22Z05RD12	50	22	5	40	
0011037	D063-22Z05RD12	63	22	5	40	
0011038	D063-22Z06RD12	63	22	6	40	
0011039	D080-32Z06RD12	80	32	6	50	
0011040	D080-32Z07RD12	80	32	7	50	
0011041	D100-32Z07RD12	100	32	7	50	
0011042	D100-32Z08RD12	100	32	8	50	
0011043	D063-22Z04RD16	63	22	4	45	
0011044	D080-32 Z05 RD16	80	32	5	50	RD 1605
0011045	D100-32 Z06 RD16	100	32	6	50	

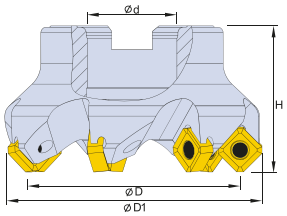




Tarama Başlıkları

Sip. No	Ürün Kodu	Ölçüler (mm)					Kullanılan Uç
		ØD	Ød	Z	H	E	
0011046	D042-16 Z03 TP16	42	16	3	44	-	TKPN 1603
0011047	D050-22 Z03 TP16	50	22	3	44	-	
0011048	D063-22 Z03 TP16	63	22	3	44	-	
0011049	D063-22 Z04 TP16	63	22	4	44	-	
0011050	D080-32 Z05 TP16	80	32	5	52	-	
0011051	D100-32 Z06 TP16	100	32	6	52	-	
0011052	D063-22 Z03 TP22	63	22	3	50	-	TKPN 2204
0011053	D080-32 Z04 TP22	80	32	4	52	-	
0011054	D100-32 Z05 TP22	100	32	5	52	-	
0011055	D125-40 Z06 TP22	125	40	6	62	-	
0011056	D160-40 Z07 TP22	160	40	7	62	66.7	
0011057	D200-60 Z08 TP22	200	60	8	62	101.6	
0011058	D250-60 Z09 TP22	250	60	9	62	101.6	

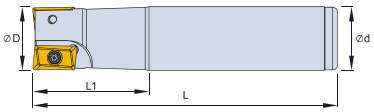


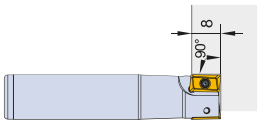


Tarama Başlıkları

Sip. No	Ürün Kodu	Ölçüler (mm)					Kullanılan Uç
		ØD	ØD1	Ød	z	H	
0011059	D063-22Z05SD12	63	76	22	5	45	 SD 1204
0011060	D080-32Z06SD12	80	93	32	6	52	
0011061	D100-32Z07SD12	100	113	32	7	60	
0011062	D125-40Z07SD12	125	138	40	7	62	



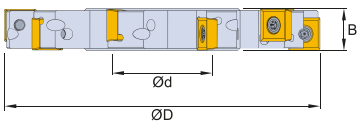




Saplı Tarama Başlıkları

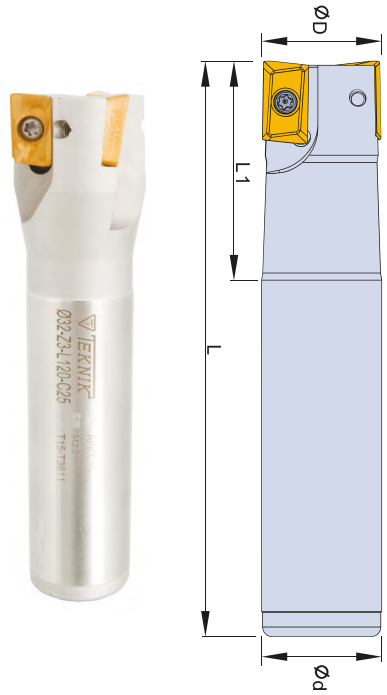
Sip. No	Ürün Kodu	Ölçüler (mm)					Kullanılan Uç
		ØD	Ød	Z	L	L1	
0011070	12-01-100-AP10	12	12	1	100	27	 APKT 1003
0011071	14-01-100-AP10	14	14	1	100	27	
0011072	16-02-100-AP10	16	16	2	100	30	
0011073	18-02-100-AP10	18	16	2	100	30	
0011074	20-03-100-AP10	20	20	3	100	30	
0011075	22-03-100-AP10	22	20	3	100	30	
0011076	25-03-100-AP10	25	25	3	100	35	
0011077	30-04-100-AP10	30	25	4	100	35	
0011078	32-04-100-AP10	32	25	4	100	35	
0011079	35-04-100-AP10	35	25	4	100	35	
0011080	40-05-100-AP10	40	25	5	100	35	
0011081	12-01-120-AP10	12	12	1	120	27	
0011082	14-01-120-AP10	14	14	1	120	30	
0011083	16-02-120-AP10	16	16	2	120	40	
0011084	20-03-120-AP10	18	16	2	120	40	
0011085	22-03-120-AP10	20	20	3	120	40	
0011086	25-03-120-AP10	22	20	3	120	40	
0011087	30-04-120-AP10	25	25	3	120	470	
0011088	35-04-120-AP10	30	25	4	120	40	
0011089	40-05-120-AP10	35	25	4	120	40	
0011090	16-02-150-AP10	40	25	5	120	40	
0011091	18-02-150-AP10	16	16	2	150	50	
0011092	20-03-150-AP10	18	16	2	150	50	 APKT 1003
0011093	22-03-150-AP10	20	20	3	150	60	
0011094	25-03-150-AP10	22	20	3	150	60	
0011095	30-04-150-AP10	25	25	3	150	60	
0011096	32-04-150-AP10	30	25	4	150	60	
0011097	32-04-150-AP10	32	25	4	150	60	
0011098	16-02-200-AP10	16	16	2	200	60	
0011099	18-02-200-AP10	18	16	2	200	60	
0011100	20-03-200-AP10	20	20	3	200	60	
0011101	22-03-200-AP10	22	20	3	200	70	
0011102	25-03-200-AP10	25	25	3	200	60	
0011103	30-03-200-AP10	30	25	4	200	50	
0011104	32-03-200-AP10	32	32	4	200	60	
0011105	16-02-250-AP10	16	16	2	250	70	
0011106	20-03-250-AP10	20	20	3	250	70	
0011107	25-03-250-AP10	25	25	3	250	70	





Tarama Başlıkları

Sip. No	Ürün Kodu	Ölçüler (mm)						Kullanılan Uç
		ØD	Ød	Z	Ap	A	B	
0011063	125-Z10-10-SC09	125	40	10	32	10	10.5	 SCMT 09
0011064	125-Z10-12-SC09	125	40	10	32	10	12.5	
0011065	125-Z10-16-SC09	125	40	10	32	16	16.5	SCMT 12
0011066	125-Z10-20-SC09	125	40	10	32	20	20.5	
0011067	160-Z10-12-SC09	160	40	12	50	12	12.5	SCMT 09
0011068	160-Z10-16-SC09	160	40	12	50	16	16.5	SCMT 12
0011069	160-Z10-20-SC09	160	40	12	50	20	20.5	

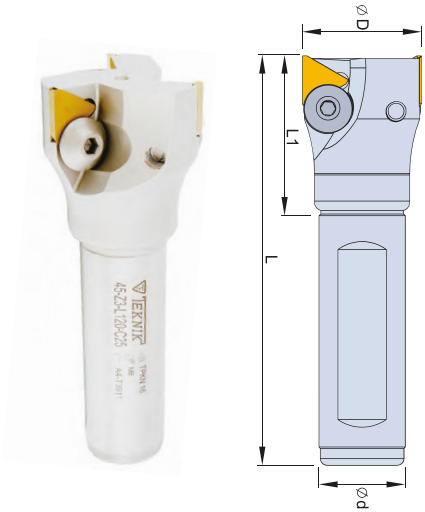


Saplı Tarama Başlıkları

Sip. No	Ürün Kodu	Ölçüler (mm)					Kullanılan Uç
		ØD	Ød	Z	L	L1	
0011108	25-02-120-AP16	25	25	2	120	45	
0011109	30-02-120-AP16	30	25	2	120	45	
0011110	32-03-120-AP16	32	25	3	120	45	
0011111	35-03-120-AP16	35	25	3	120	45	
0011112	40-04-120-AP16	40	25	4	120	45	
0011113	25-02-150-AP16	25	25	2	150	55	
0011114	30-02-150-AP16	30	25	2	150	55	
0011115	32-03-150-AP16	32	25	3	150	55	
0011116	35-03-150-AP16	35	25	3	150	55	
0011117	40-04-150-AP16	40	25	4	150	55	
0011118	25-02-200-AP16	25	25	2	200	55	
0011119	30-02-200-AP16	30	25	2	200	55	
0011120	32-03-200-AP16	32	25	3	200	55	
0011121	35-03-250-AP16	35	32	3	200	55	
0011122	40-04-250-AP16	40	32	4	200	55	
0011123	25-02-300-AP16	25	32	2	250	55	
0011124	30-02-300-AP16	30	25	2	250	60	
0011125	32-03-300-AP16	32	25	3	250	60	
0011126	35-03-300-AP16	35	32	3	250	60	
0011127	40-04-300-AP16	40	32	4	250	60	
0011128	25-02-300-AP16	25	32	2	300	60	
0011129	30-02-300-AP16	30	25	2	300	70	
0011130	32-03-300-AP16	32	25	3	300	70	
0011131	35-03-300-AP16	35	32	3	300	70	
0011132	40-04-300-AP16	40	32	4	300	70	
0011133	32-03-350-AP16	32	32	3	350	70	
0011134	35-03-350-AP16	35	32	3	350	70	
0011135	40-04-350-AP16	40	32	4	350	70	



APKT 1604



Saplı Tarama Başlıkları

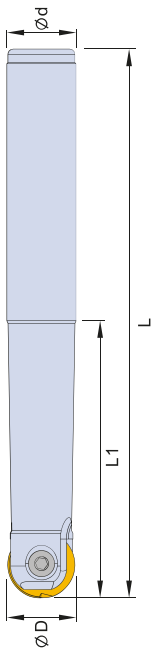
Sip. No	Ürün Kodu	Ölçüler (mm)					Kullanılan Uç
		ØD	Ød	Z	L	L1	
0011136	22-02-120-TP11	22	20	2	120	45	
0011137	25-02-120-TP11	25	25	2	120	45	
0011138	28-02-120-TP11	28	25	2	120	45	
0011139	30-03-120-TP11	30	25	3	120	45	
0011140	32-03-120-TP11	32	25	3	120	45	
0011141	35-03-120-TP16	35	25	3	120	45	
0011142	35-02-120-TP16	35	25	2	120	45	
0011143	40-03-120-TP16	40	25	3	120	45	
0011144	45-03-120-TP16	45	25	3	120	45	
0011145	50-03-120-TP22	50	32	3	120	55	TPKN 2204



TPKN 1103

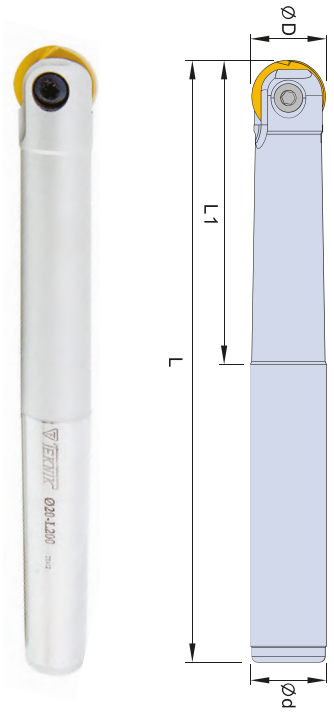
TPKN 1603





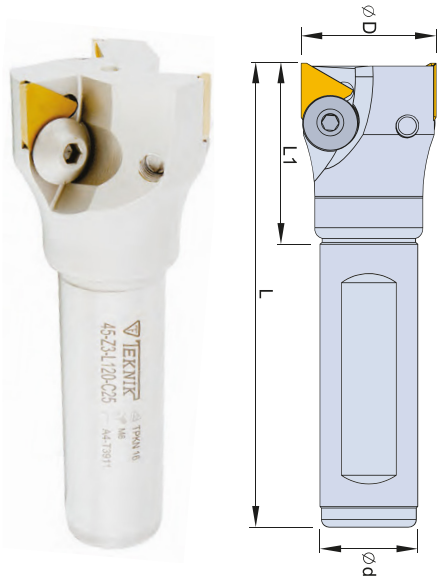
Saplı Tarama Başlıkları

Sip. No	Ürün Kodu	70300Ölçüler (mm)3007					Kullanılan Uç
		ØD	Ød	Z	L	L1	
0011146	16-02-120-RD08	16	16	2	120	50	
0011147	18-02-120-RD08	18	16	2	120	50	
0011148	20-03-120-RD08	20	20	3	120	50	
0011149	16-02-150-RD08	16	16	2	150	60	
0011150	16-02-150-RD08	18	16	2	150	60	
0011151	20-03-150-RD08	20	20	3	150	60	RD 0803
0011152	16-02-200-RD08	166	16	2	200	70	
0011153	18-02-200-RD08	18	16	2	200	70	
0011154	20-03-200-RD08	20	20	3	200	70	
0011155	20-02-120-RD10	20	20	2	120	40	
0011156	25-03-120-RD10	25	25	3	120	40	
0011157	30-03-120-RD10	30	25	3	120	40	
0011158	32-03-120-RD10	32	25	3	120	40	
0011159	35-03-120-RD10	35	25	3	120	40	
0011160	40-03-120-RD10	40	25	3	120	40	
0011161	20-02-150-RD10	20	20	2	150	60	
0011162	25-03-150-RD10	25	25	3	150	60	
0011163	30-03-150-RD10	30	25	3	150	60	
0011164	32-03-150-RD10	32	25	3	150	60	
0011165	35-03-150-RD10	35	25	3	150	60	RD 1003
0011166	40-03-150-RD10	40	25	3	150	60	
0011167	20-02-200-RD10	20	20	2	200	70	
0011168	25-03-200-RD10	25	25	3	200	70	
0011169	30-03-200-RD10	30	25	3	200	70	
0011170	32-03-200-RD10	32	32	3	200	70	
0011171	35-03-200-RD10	35	32	3	200	70	
0011172	40-03-200-RD10	40	32	3	200	70	
0011173	25-02-120-RD12	25	25	2	120	40	
0011174	30-02-120-RD12	30	25	2	120	40	
0011175	32-03-120-RD12	32	25	3	120	40	
0011176	35-03-120-RD12	35	25	3	120	40	
0011177	40-03-120-RD12	40	25	3	120	40	
0011178	25-02-150-RD12	25	25	2	150	60	
0011179	30-02-150-RD12	30	25	2	150	60	
0011180	32-03-150-RD12	32	25	3	150	60	
0011181	35-03-150-RD12	35	25	3	150	60	
0011182	40-03-150-RD12	40	25	3	150	60	
0011183	25-02-200-RD12	25	25	2	200	70	
0011184	30-02-200-RD12	30	25	2	200	70	
0011185	32-03-200-RD12	32	32	3	200	70	
0011186	35-03-200-RD12	35	32	3	200	70	RD 12T3
0011187	40-03-200-RD12	40	32	3	200	70	
0011188	40-03-200-RD12	40	32	3	250	70	
0011189	50-04-250-RD12	50	32	4	250	70	
0011190	25-02-300-RD12	25	25	2	300	70	
0011191	30-02-300-RD12	30	25	2	300	70	
0011192	32-03-300-RD12	32	32	3	300	70	
0011193	35-03-300-RD12	35	32	3	300	70	
0011194	40-03-300-RD12	40	32	3	300	70	
0011195	35-03-350-RD12	35	32	3	350	70	
0011196	40-03-300-RD12	40	32	3	350	70	
0011197	35-03-350-RD12	40	32	3	350	70	
0011198	40-03-350-RD12	50	32	3	300	70	RD 1604



Sip. No	Ürün Kodu	Ölçüler (mm)				Kullanılan Uç	
		ØD	Ød	Z	L		
0011199	08-10-130	8	10	130	50	P3201 D08	
0011200	10-12-130	10	12	130	60	P3201 D10	
0011201	12-12-150	12	12	150	70	P3201 D12	
0011202	16-16-175	16	16	175	80	P3201 D16	
0011203	20-20-200	20	20	200	100	P3201 D20	
0011204	25-25-200	25	25	200	100	P3201 D25	
0011205	30-32-200	30	32	200	90	P3201 D30	
0011206	32-32-200	32	32	200	90	P3201 D32	

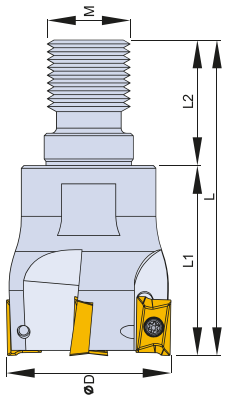
Küre Saplı Tarama Başlıkları



Sip. No	Ürün Kodu	Ölçüler (mm)							Kullanılan Uç
		ØD	Ød1	Ød2	Z	L	L1	K	
0011207	02-16-Z2-TC11	16	2	16	2	100	35	30°	TCMT 1102
0011208	04-15-Z1-TC11	15	4	16	1	100	35	45°	
0011209	10-31-Z2-TC16	31	10	16	2	100	35	30°	
0011210	10-31-Z2-TC16	31	10	16	2	100	35	45°	TCMT 16T3
0011211	14-35-Z2-TC16	35	14	20	2	100	35	45°	
0011212	22-43-Z3-TC16	43	22	25	3	100	35	45°	
0011213	32-53-Z3-TC16	53	32	25	3	100	35	45°	
0011214	24-39-Z2-TC16	39	24	20	2	100	35	60°	

Açılı Saplı Tarama Başlıkları

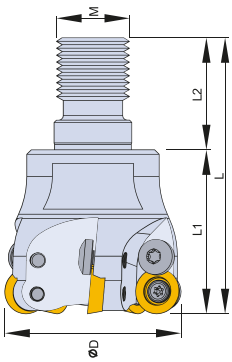




Vidalı Tarama Başlıkları

Sip. No	Ürün Kodu	Ölçüler (mm)						Kullanılan Uç
		ØD	M	Z	L	L1	L2	
0011215	20-03-M10-AP10	20	M10	3	55	38	17	 APKT 1003
0011216	25-03-M12-AP10	25	M12	3	55	33	22	
0011217	32-04-M16-AP10	32	M12	4	60	36	24	
0011218	35-04-M16-AP10	35	M16	4	60	36	24	
0011219	40-05-M16-AP10	40	M16	5	60	36	24	
0011220	42-05-M16-AP10	42	M16	5	60	36	24	
0011221	25-02-M12-AP16	25	M12	2	55	33	22	 APKT 1604
0011222	32-03-M16-AP16	32	M16	3	60	36	24	
0011223	35-03-M16-AP16	35	M16	3	60	36	24	
0011224	40-04-M16-AP16	40	M16	4	60	36	24	
0011225	42-04-M16-AP16	42	M16	4	60	36	24	

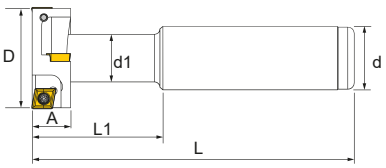




Vidalı Tarama Başlıkları

Sip. No	Ürün Kodu	Ölçüler (mm)						Kullanılan Uç
		ØD	M	Z	L	L1	L2	
0011226	20-02-M10-RD10	20	M10	2	55	35	20	 ROMT 1003
0011227	25-03-M12-RD10	25	M12	3	55	33	22	
0011228	32-03-M16-RD10	32	M16	3	60	36	24	
0011229	35-04-M16-RD10	35	M16	4	60	36	24	
0011230	40-05-M16-RD10	40	M16	5	60	36	24	
0011231	42-05-M16-RD10	42	M16	5	60	36	24	
0011232	25-02-M12-RD12	25	M12	2	55	33	22	 ROMT 12T3
0011233	32-03-M16-RD12	32	M16	3	60	36	24	
0011234	35-03-M16-RD12	35	M16	3	60	36	24	
0011235	40-04-M16-RD12	40	M16	4	60	36	24	
0011236	42-04-M16-RD12	42	M16	4	60	36	24	
0011237	45-04-M16-RD12	45	M16	4	60	36	24	

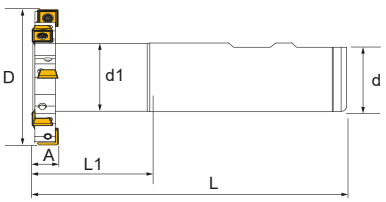




Takma Uçlu T Frezeler

Sip. No	D	d	d1	Z	A	L	L1	Uç Tipi
0011238	17	16	10	2	8	100	30	CCMT 0602 ISO Standartı
0011239	21	20	11	2	9	100	30	
0011240	25	20	15	4	11	100	30	
0011241	32	20	15	4	12	100	40	
0011242	35	25	14	4	15	100	50	CCMT 09T3 ISO Standartı
0011243	40	25	20	4	17	110	50	
0011244	50	32	26	4	20	110	50	CCMT 1204
0011245	63	32	20	8	9	125	37	CCMT 0602 ISO Standartı
0011246	80	32	32	10	9	120	-	

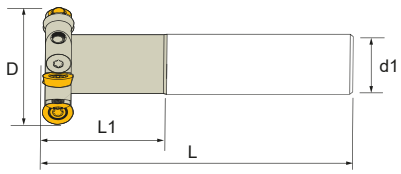




Takma Uçlu T Frezeler

Sip. No	D	d	d1	Z	A	L	L1	Uç Tipi
0011247	50	32	31,5	7	5	120	45	SPMG 0502 TGTC Uca uyumludur.
0011248	63	32	31,5	8	5	120	45	
0011249	50	32	31,5	7	6	120	45	SPMG 0602 TGTC Uca uyumludur.
0011250	63	32	31,5	8	6	120	45	
0011251	80	32	31,5	10	6	120	45	
0011252	50	32	31,5	6	8	120	45	
0011253	63	32	31,5	8	8	120	45	
0011254	80	32	31,5	10	8	120	45	
0011255	50	32	31,5	6	10	120	45	SPMG 07T3 TGTC Uca uyumludur.
0011256	63	32	31,5	8	10	120	45	
0011257	80	32	31,5	10	10	120	45	

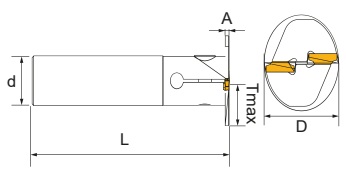




Takma Uçlu T Frezeler

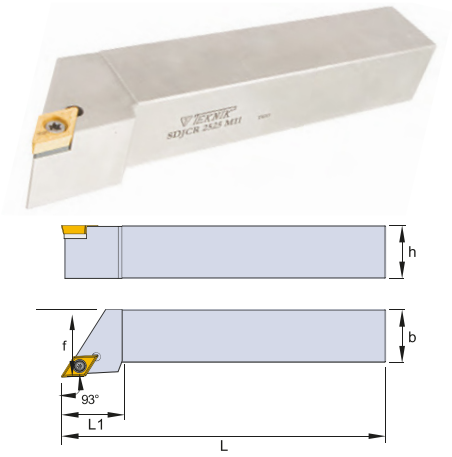
Sip. No	D	Z	L	d	L1	Uç Tipi
0011258	40	4	100	20	40	RHKW 1003 INGRSLL Uca uyumludur.
0011259	50	5	120	25	40	





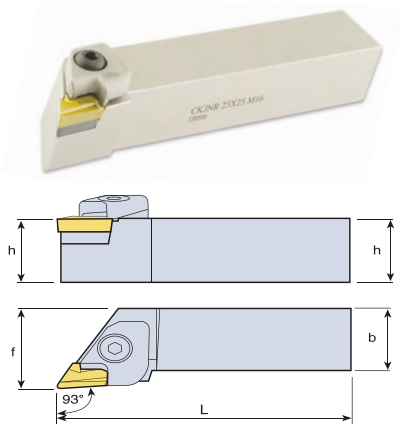
Takma Uçlu T Frezeler

Sip. No	D	A	Z	L	d	Tmax	Uç Tipi
0011260	50	3	2	120	25	12,5	MGM 3C KRLY Uca uyumludur.
0011261	63	3	2	120	25	19	
0011262	80	3	2	120	32	24	
0011263	50	4	2	120	25	12	MGM 4C KRLY Uca uyumludur.
0011264	63	4	2	120	25	29	
0011265	80	4	2	120	32	24	
0011266	50	5	2	120	25	15	MGM 5C KRLY Uca uyumludur.
0011267	63	5	2	120	25	19	
0011268	80	5	2	120	32	24	



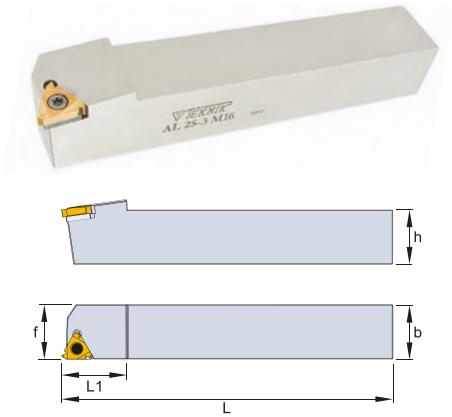
93° SDJCR–SDJCL
Dış Paso Torna Katerleri

Sip. No	Ürün Kodu	Ölçüler (mm)					Kullanılan Uç	Altlık
		L	L1	h	f	b		
0011269	SDJCR 1010 J07	110	12	10	10	10	DC 0702 DCMT 11T3 DCMT 11T3	—— —— TA 030
0011270	SDJCR 1212 J11	110	18	12	12	12		
0011271	SDJCR 1616 H11	100	24	16	20	16		
0011272	SDJCR 2020 K11	125	24	20	25	20		
0011273	SDJCR 2525 M11	150	30	25	32	25		
0011274	SDJCL 1010 J07	110	12	10	10	10		
0011275	SDJCL 1212 J11	110	18	12	12	12		
0011276	SDJCL 1616 H11	100	24	16	20	16		
0011277	SDJCL 2020 K11	125	24	20	25	20		
0011278	SDJCL 2525 M11	150	30	25	32	25		



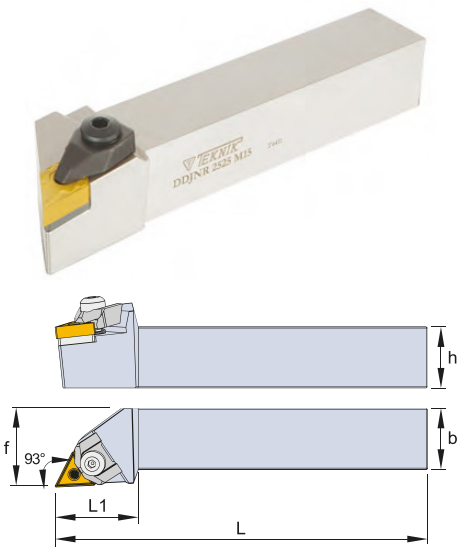
93° CKJNR R–L
Dış Paso Torna Katerleri

Sip. No	Ürün Kodu	Ölçüler (mm)				Kullanılan Uç	Altlık
		h	b	L	f		
0011279	CKJNR/L 2020 K 16	20	20	125	25	KNUX 16 04..	AKS–16–R AKS–16–L
0011280	CKJNR/L 2525 M 16	25	25	150	32		
0011281	CKJNR/L 3232 P 16	32	32	170	40		
0011282	CKJNR/L 4040 S 16	40	40	250	50		



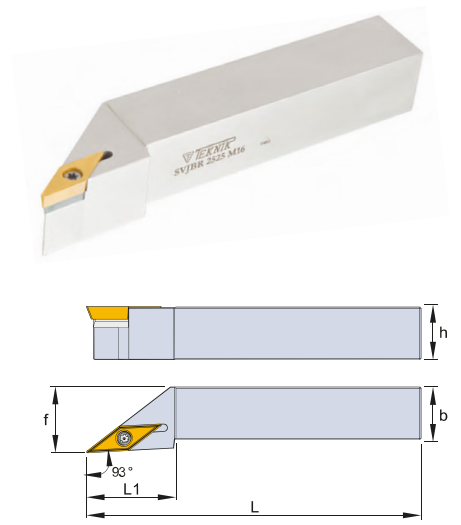
R–L
Dış Çap Diş Katerleri

Sip. No	Ürün Kodu	Ölçüler (mm)					Kullanılan Uç	Altlık
		L	L1	h	f	b		
0011283	AL 12-3	110	20	12	12	12	16 ER 22 ER 16 ER	TA 044 —— TA 044
0011284	AL 16-3	100	22	16	16	16		
0011285	AL 20-3	125	25	20	20	20		
0011286	AL 25-3	150	30	25	25	25		
0011287	AL 25-4	150	36	25	25	25		
0011288	AL 32-3	170	30	32	32	32		
0011289	AL 20-3 SOL	125	25	20	20	20	16 ER	TA 044
0011290	AL 25-3 SOL	150	30	25	25	25		



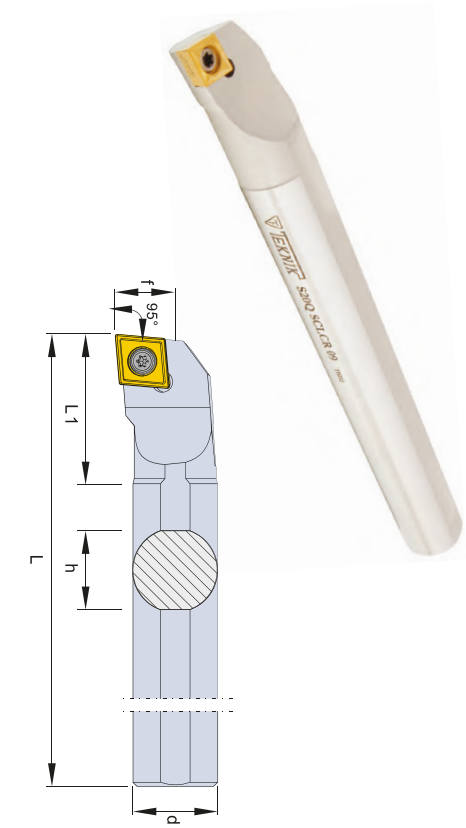
Sip. No	Ürün Kodu	Ölçüler (mm)					Kullanılan Uç	Altlık	Baskı
		L	L1	h	f	b			
0011291		125	35	20	25	20	DN 1104 DN 1506	TA 030 TA 014	BK 021 BK 020
0011292		150	35	25	32	25			
0011293		125	38	20	25	20			
0011294		150	38	25	32	25			
0011295		170	38	32	40	32			
0011296		125	35	20	25	20	DN 1104 DN 1506	TA 030 TA 014	BK 021 BK 020
0011297		150	35	25	32	25			
0011298		125	38	20	25	20			
0011299		150	38	25	32	25			
0011300		170	38	32	40	32			

93° DDJNR–DDJNL
Dış Paso Torna Katerleri



Sip. No	Ürün Kodu	Ölçüler (mm)					Kullanılan Uç	Altlık
		L	L1	h	f	b		
0011301	SVJBR 1010 J11	110	21	10	10	10	VB 1103 VBMT 1604	TA 034
0011302	SVJBR 1212 J11	110	21	12	12	12		
0011303	SVJBR 1616 H11	110	21	16	16	16		
0011304	SVJBR 1616 K16	100	27	16	20	16		
0011305	SVJBR 2020 K16	125	33	20	25	20		
0011306	SVJBR 2525 M16	150	39	25	32	25		
0011307	SVJBL 1010 J11	110	21	10	10	10	VB 1103 VBMT 1604	TA 034
0011308	SVJBL 1212 J11	110	21	12	12	12		
0011309	SVJBL 1616 H11	110	21	16	16	16		
0011310	SVJBL 1616 H16	100	27	16	20	16		
0011311	SVJBL 2020 K16	125	33	20	25	20		
0011312	SVJBL 2525 M16	150	39	25	32	25		

93° SVJBR–SVJBL
Dış Paso Torna Katerleri

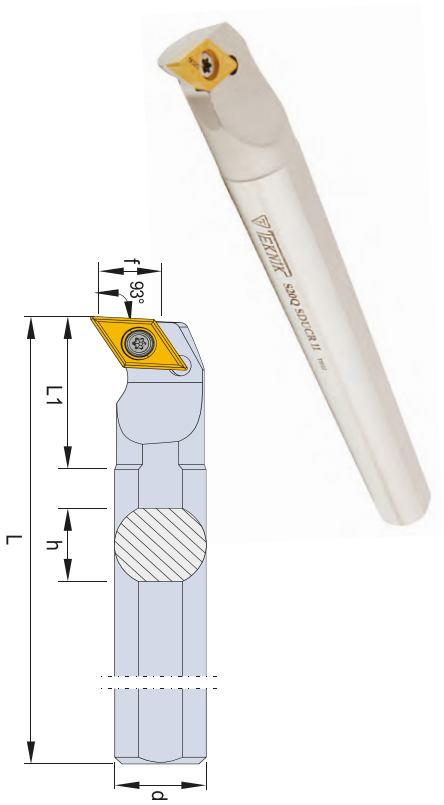


İç Paso Torna Katerleri

Sip. No	Ürün Kodu	Ölçüler (mm)						Kullanılan Uç
		Dmin	d	L	L1	f	h	
0011313	S06-08H SCLCR 06	8	8	100	25	4,3	7	
0011314	S08H SCLCR 06	11	8	100	20	5,5	7	
0011315	S10J SCLCR 06	13	10	110	20	6	9	
0011316	S10K SCLCR 06	13	10	125	20	6	9	
0011317	S12K SCLCR 06	16	12	125	24	9	11	
0011318	S12Q SCLCR 06	16	12	180	24	9	11	
0011319	S14-16Q SCLCR 09	19	16	180	45	10	15	
0011320	S16Q SCLCR 09	20	16	180	30	11	15	
0011321	S16R SCLCR 09	20	16	200	30	11	15	
0011322	S18-20Q SCLCR 09	24	20	180	37	12	18	
0011323	S20Q SCLCR 09	25	20	180	37	13	18	
0011324	S20S SCLCR 09	25	20	250	37	13	18	
0011325	S25R SCLCR 09	32	25	200	40	17	23	
0011326	S25T SCLCR 09	32	25	300	40	17	23	
0011327	S06-08H SCLCL 06	8	8	100	25	7	7	
0011328	S08H SCLCL 06	11	8	100	20	7	7	
0011329	S10J SCLCL 06	12	10	110	20	9	9	
0011330	S12K SCLCL 06	16	12	125	24	11	11	
0011331	S14-16Q SCLCL 09	19	16	180	45	15	15	
0011332	S16Q SCLCL 09	20	16	180	30	15	15	
0011333	S16R SCLCL 09	20	16	200	30	15	15	
0011334	S20Q SCLCL 09	25	20	180	37	18	18	
0011335	S20S SCLCL 09	25	20	250	37	18	18	
0011336	S25R SCLCL09	32	25	200	40	23	23	



CC 0602
CC 09T3



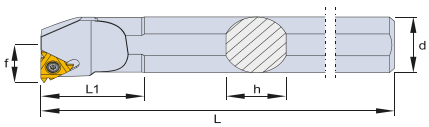
İç Paso Torna Katerleri

Sip. No	Ürün Kodu	Ölçüler (mm)						Kullanılan Uç
		Dmin	d	L	L1	f	h	
0011337	S10J SDUCR 07	14	10	110	20	7	9	
0011338	S12K SDUCR 07	17	12	125	24	9	11	
0011339	S14-16Q SDUCR 07	20	16	180	40	10,5	15	
0011340	S16Q SDUCR 07	21	16	180	27	11	15	
0011341	S1416Q SDUCR 11	20	16	180	45	10,5	15	
0011342	S16Q SDUCR11	21	16	180	30	11	15	
0011343	S20Q SDUCR 11	25	20	180	32	13	18	
0011344	S25R SDUCR 11	32	25	200	40	17	23	
0011345	S32T SDUCR 11	40	32	300	45	22	30	
0011346	S10J SDUCL 07	14	10	110	20	7	9	
0011347	S12K SDUCL 07	17	12	125	24	9	11	
0011348	S14-16Q SDUCL 07	20	16	180	40	10,5	15	
0011349	S16Q SDUCL 07	21	16	180	27	11	15	
0011350	S16Q SDUCL11	21	16	180	30	11	15	
0011351	S20Q SDUCL 11	25	20	180	32	13	18	
0011352	S25R SDUCL 11	32	25	200	40	17	23	
0011353	S32T SDUCL 11	40	32	300	45	22	30	



DC 0702
DC 11T3

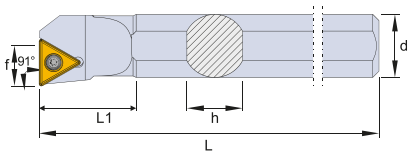




İç Diş Torna Katerleri

Sip. No	Ürün Kodu	Ölçüler (mm)						Kullanılan Uç
		Dmin	d	L	L1	f	h	
0011354	S10J STIR 11	12	10	110	20	6	7	 11 IR 16 IR 22 IR
0011355	S12K STIR 11	14	12	125	24	7,2	11	
0011356	S16Q STIR 16	20	16	180	40	11	15	
0011357	S20Q STIR 16	24	20	180	40	13	18	
0011358	S25R STIR 16	29	25	200	40	16	23	
0011359	S32T STIR 16	36	32	300	40	19,5	30	
0011360	S25R STIR 22	32	25	200	40	17	23	
0011361	S32T STIR 22	39	32	300	40	22	30	
0011362	S40T STIR 22	50	40	300	60	24,5	38	
0011363	S16Q STIL 16	20	16	180	40	11	15	
0011364	S20Q STIL 16	24	20	180	40	13	18	
0011365	S25R STIL 16	29	25	200	40	16	23	

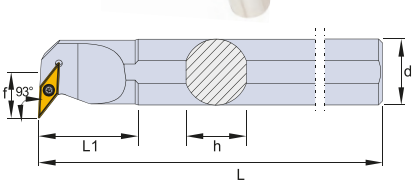




İç Çap Paso Katerleri

Sip. No	Ürün Kodu	Ölçüler (mm)						Kullanılan Uç
		Dmin	d	L	L1	f	h	
0011366	S12K STFCR 11	17	12	125	24	9	11	 TCMT 1102 TCMT 16T3
0011367	S16Q STFCR 11	21	16	180	30	11	15	
0011368	S16Q STFCR 16	21	16	180	30	11	15	
0011369	S20Q STFCR 16	25	20	180	30	13	18	
0011370	S25R STFCR 16	32	25	200	37	16	23	

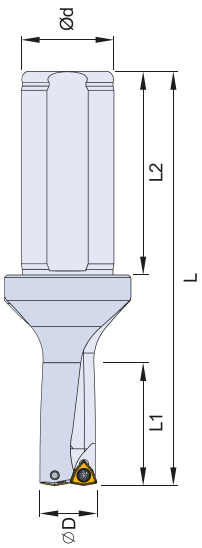




İç Çap Paso Katerleri

Sip. No	Ürün Kodu	Ölçüler (mm)						Kullanılan Uç
		Dmin	d	L	L1	f	h	
0011371	S16Q SVUBR 11	21	16	180	30	11	15	 VBMT 1103 VBMT 1604
0011372	S20Q SVUBR 11	25	20	180	30	13	18	
0011373	S25Q SVUBR 16	32	25	200	40	17	23	
0011374	S32T SVUBR 16	40	32	300	50	22	30	
0011375	S40T SVUBR 16	49	40	300	55	27	38	

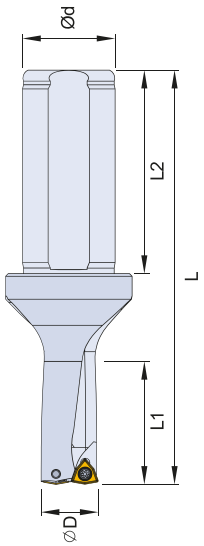




Udrill Matkap

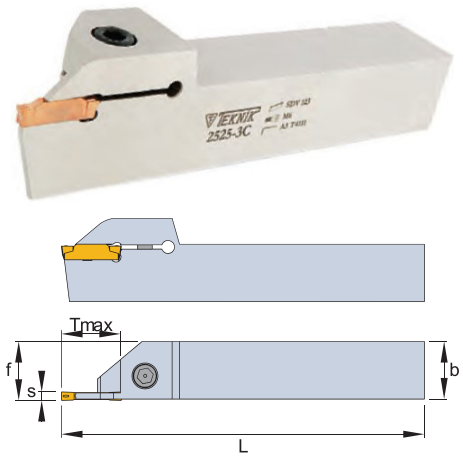
Sip. No	Ürün Kodu	Ölçüler (mm)						Kullanılan Uç
		D	d	D1	l	L1	L2	
0011376	D2 16 WCMX 03	16	25	34	115	32	55	
0011377	D2 17 WCMX 03	17	25	34	118	34	55	
0011378	D2 18 WCMX 03	18	25	34	120	36	55	
0011379	D2 19 WCMX 03	19	25	34	123	38	55	WCMX 0302
0011380	D2 20 WCMX 04	20	25	34	125	40	55	
0011381	D2 21 WCMX 04	21	25	34	129	42	55	WCMX 0402
0011382	D2 22 WCMX 04	22	25	34	131	44	55	
0011383	D2 23 WCMX 04	23	25	34	134	46	55	
0011384	D2 24 WCMX 05	24	25	34	136	48	55	
0011385	D2 25 WCMX 05	25	25	34	138	50	55	
0011386	D2 26 WCMX 05	26	25	34	147	52	55	WCMX 0503
0011387	D2 27 WCMX 05	27	25	34	149	54	55	
0011388	D2 28 WCMX 05	28	25	34	152	56	55	
0011389	D2 29 WCMX 05	29	25	34	154	58	55	
0011390	D2 30 WCMX 06	30	32	44	156	60	58	
0011391	D2 31 WCMX 06	31	32	44	161	62	58	
0011392	D2 32 WCMX 06	32	32	44	163	64	58	
0011393	D2 33 WCMX 06	33	32	44	165	66	58	
0011394	D2 34 WCMX 06	34	32	44	168	68	58	
0011395	D2 35 WCMX 06	35	32	44	170	70	58	
0011396	D2 36 WCMX 06	36	32	44	172	72	58	WCMX 06T3
0011397	D2 37 WCMX 06	37	32	44	174	74	58	
0011398	D2 38 WCMX 06	38	32	44	176	76	58	
0011399	D2 39 WCMX 06	39	32	44	178	78	58	
0011400	D2 40 WCMX06	40	32	44	180	80	58	
0011401	D3 16 WCMX 03	16	25	34	131	48	55	
0011402	D3 17 WCMX 03	17	25	34	135	51	55	WCMX 0302
0011403	D3 18 WCMX 03	18	25	34	138	54	55	
0011404	D3 19 WCMX 03	19	25	34	142	57	55	
0011405	D3 20 WCMX 04	20	25	34	145	60	55	
0011406	D3 21 WCMX 04	21	25	34	150	63	55	WCMX 0402
0011407	D3 22 WCMX 04	22	25	34	153	66	55	
0011408	D3 23 WCMX 04	23	25	34	157	69	55	
0011409	D3 24 WCMX 05	24	25	34	160	72	55	
0011410	D3 25 WCMX 05	25	25	34	163	75	55	
0011411	D3 26 WCMX 05	26	25	34	173	78	55	WCMX 0503
0011412	D3 27 WCMX 05	27	25	34	176	81	55	
0011413	D3 28 WCMX 05	28	25	34	180	84	55	
0011414	D3 29 WCMX 05	29	25	34	183	87	55	
0011415	D3 30 WCMX 06	30	32	44	186	90	58	
0011416	D3 31 WCMX 06	31	32	44	192	93	58	
0011417	D3 32 WCMX 06	32	32	44	195	96	58	
0011418	D3 33 WCMX 06	33	32	44	198	99	58	
0011419	D3 34 WCMX 06	34	32	44	202	102	58	
0011420	D3 35 WCMX 06	35	32	44	205	105	58	WCMX 0673
0011421	D3 36 WCMX 06	36	32	44	208	108	58	
0011422	D3 37 WCMX 06	37	32	44	211	111	58	





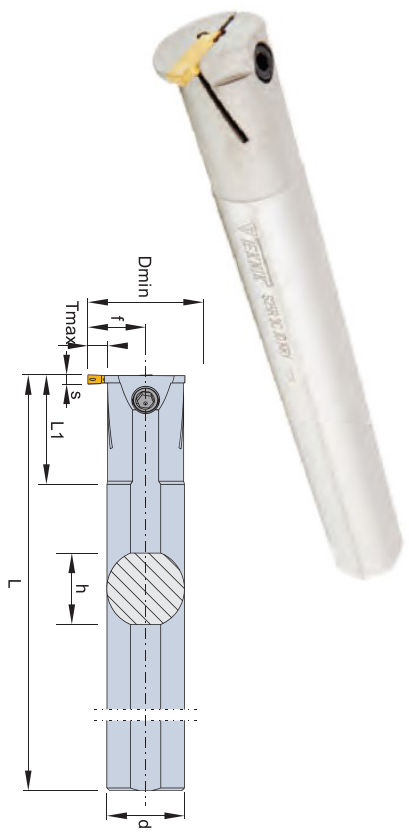
Udrill Matkap

Sip. No	Ürün Kodu	44Ölçüler (mm)						Kullanılan Uç
		D	d	D1	l	L1	L2	
0011423	D3 38 WCMX 06	38	32	44	214	114	58	WCMX 06T3
0011424	D3 39 WCMX 06	39	32	44	217	117	58	
0011425	D3 40 WCMX 06	40	32	44	220	120	58	
0011426	D3 41 WCMX 06	41	32	49	220	123	58	
0011427	D3 42 WCMX 06	42	32	49	220	126	58	
0011428	D3 43 WCMX 06	43	32	49	225	129	58	
0011429	D3 44 WCMX 06	44	32	49	225	132	58	
0011430	D3 45 WCMX 06	45	32	49	225	135	58	
0011431	D3 46 WCMX 08	46	40	59	230	138	68	WCMX 0804
0011432	D3 47 WCMX 08	47	40	59	230	141	68	
0011433	D3 48 WCMX 08	48	40	59	230	144	68	
0011434	D3 49 WCMX 08	49	40	59	235	147	68	
0011435	D3 50 WCMX 08	50	40	59	235	150	68	
0011436	D3 51 WCMX 08	51	40	59	235	153	68	
0011437	D3 52 WCMX 08	52	40	59	245	156	68	
0011438	D3 53 WCMX 08	53	40	59	245	159	68	
0011439	D3 54 WCMX 08	54	40	59	245	162	68	
0011440	D3 55 WCMX 08	55	40	59	255	165	68	
0011441	D4 16 WCMX 03	16	25	139	139	64	55	WCMX 0302
0011442	D4 17 WCMX 03	17	25	143	143	68	55	
0011443	D4 18 WCMX 03	18	25	148	148	72	55	
0011444	D4 19 WCMX 03	19	25	152	152	76	55	
0011445	D4 20 WCMX 04	20	25	158	158	80	55	WCMX 0402
0011446	D4 21 WCMX 04	21	25	162	162	84	55	
0011447	D4 22 WCMX 04	22	25	166	166	88	55	
0011448	D4 23 WCMX 04	23	25	171	171	92	55	
0011449	D4 24 WCMX 05	24	25	175	175	96	55	WCMX 0503
0011450	D4 25 WCMX 05	25	25	180	180	100	55	
0011451	D4 26 WCMX 05	26	25	184	184	104	55	
0011452	D4 27 WCMX 05	27	25	189	189	108	55	
0011453	D4 28 WCMX 05	28	25	194	194	112	55	
0011454	D4 29 WCMX 05	29	25	198	198	116	55	
0011455	D4 30 WCMX 06	30	32	209	209	120	58	WCMX 06T3
0011456	D4 31 WCMX 06	31	32	215	215	124	58	
0011457	D4 32 WCMX 06	32	32	219	219	128	58	
0011458	D4 33 WCMX 06	33	32	223	223	132	58	
0011459	D4 34 WCMX 06	34	32	227	227	136	58	
0011460	D4 35 WCMX 06	35	32	231	231	140	58	
0011461	D4 36 WCMX 06	36	32	235	235	144	58	
0011462	D4 37 WCMX 06	37	32	239	239	148	58	
0011463	D4 38 WCMX 06	38	32	240	241	152	58	
0011464	D4 39 WCMX 06	39	32	245	245	156	58	
0011465	D4 40 WCMX 06	40	32	250	250	160	58	



Kanal Açma–Kesme Katerleri

Sip. No	Ürün Açıklaması	Ölçüler (mm)						Kullanılan Uç
		L	Tmax	h	b	f	s	
0011466	12x12 2C-R JD KORLOY	125	16	12	12	12	2	 2C JD KORLOY
0011467	16x16 2C-R JD KORLOY	125	16	16	16	16	2	
0011468	20x20 2C-R JD KORLOY	125	16	20	20	20	2	
0011469	25x25 2C-R JD KORLOY	150	16	25	25	25	2	
0011470	32x32 2C-R JD KORLOY	170	18	32	32	32	2	
0011471	12x12 3C-R JD KORLOY	125	18	12	12	12	3	 3C JD KORLOY
0011472	16x16 3C-R JD KORLOY	125	18	16	16	16	3	
0011473	20x20 3C-R JD KORLOY	125	18	20	20	20	3	
0011474	25x25 3C-R JD KORLOY	150	18	25	25	25	3	
0011475	32x32 3C-R JD KORLOY	170	20	32	32	32	3	
0011476	16x16 4C-R JD KORLOY	125	18	16	16	16	4	 4C JD KORLOY
0011477	20x20 4C-R JD KORLOY	125	18	20	20	20	4	
0011478	25x25 4C-R JD KORLOY	150	18	25	25	25	4	
0011479	32x32 4C-R JD KORLOY	170	20	32	32	32	4	
0011480	20x20 5C-R JD KORLOY	125	18	20	20	20	5	 5C JD KORLOY
0011481	25x25 5C-R JD KORLOY	150	24	25	25	25	5	
0011482	32x32 5C-R JD KORLOY	170	24	32	32	32	5	
0011483	25x25 6C-R JD KORLOY	150	24	25	25	25	6	 6C JD KORLOY
0011484	32x32 6C-R JD KORLOY	170	24	32	32	32	6	



İç Çap Katerleri

Sip. No	Ürün Açıklaması	Ölçüler (mm)								Kullanılan Uç
		Dmin	Tmax	L	L1	d	h	f	s	
0011485	S16Q 2C JD KORLOY	20	4.90	180	35	16	15	12.5	2	 2C JD KORLOY
0011486	S20Q 2C JD KORLOY	25	5.70	180	35	20	18	15.5	2	
0011487	S25R 2C JD KORLOY	31	5.70	200	35	25	23	18.6	2	
0011488	S20Q 3C JD KORLOY	25	6.00	180	35	20	18	15.8	3	 3C JD KORLOY
0011489	S25R 3C JD KORLOY	31	6.70	200	40	25	23	19	3	
0011490	S32S 3C JD KORLOY	37	6.70	250	45	32	30	21.5	3	
0011491	S40T 3C JD KORLOY	45	7.40	300	60	40	38	27	3	
0011492	S20Q 4C JD KORLOY	25	6.00	180	35	20	18	15.8	4	 4C JD KORLOY
0011493	S25R 4C JD KORLOY	31	6.00	200	40	25	23	19	4	
0011494	S32S 4C JD KORLOY	37	6.00	250	65	32	30	21.5	4	
0011495	S40T 4C JD KORLOY	45	7.40	300	60	40	38	27	4	
0011496	S25R 5C JD KORLOY	31	7.00	200	40	25	23	19.4	5	 5C JD KORLOY
0011497	S32S 5C JD KORLOY	37	7.00	250	60	32	30	21.5	5	
0011498	S40T 5C JD KORLOY	45	7.40	300	60	40	38	27	5	



TC 090 M1.6 T6 | TC 051 M1.8 T6/54 Ncm | TC58 M2 T6/65 Ncm | TC 059 M2.2x5.5 TB/130 Ncm | TC 060 M2.5x7 TB/135 Ncm | TC 063 M2.5x7 TB/135 Ncm | TC 065 M3x7 TB/235 Ncm | TC 066 M3x10 TB/240 Ncm



TA 010 TPKN 16 | TA 012 TPKN 22 | TA 014 DNMG 15 | TA 015 CCMT 09 | TA 016 CNMG 12 | TA 017 CNMG 19 | TA 018 TNMG 16



TA 019 MTJNR | TA 020 WNMG 08 | TA 021 WNMG 06 | TA 022 CNMG 16 | TA 030 DCMT 11 | TA 032 VCMT 16 | TA 034 VBMT 16



TA 040 16'LIK IR-ER | TA 045 MTJNR 22 | TA 050 SNMG 12 | TA 0046 KNUX 16 (SAĞ) | TA 0048 KNUX 16 (SOL)



BK 018 CNMG 19 | BK 020 D TİPİ | BK 021 CNMG 16 | BK 022 MTJNR 16 | BK 023 MTJNR 22 | BK 023 MTJNR 22 | BK 023 MTJNR 22



BK 028 KNUX (SAĞ) | BK 030 KNUX (SOL) | BK 031 KNUX (SAĞ) | BK 032 KNUX (SOL) | BK 036 TPKN 16 | BK 038 TPKN 22



Sip. No	Kod
0011499	CCMT 060204 NN
0011500	CCMT 09T304 NN
0011501	CCMT 09T308 NN
0011502	CCMT 120404 NN
0011503	CCMT 120408 NN
0011504	CCMT 120412 NN



Sip. No	Kod
0011505	CNMG 120404 NN
0011506	CNMG 120408 NX
0011507	CNMG 120408 NN
0011508	CNMG 120408 NM
0011509	CNMG 120412 NN



Sip. No	Kod
0011510	CNMM 120412 NR



Sip. No	Kod
0011511	CPMT 060204 NN
0011512	CPMT 060208 NN
0011513	CPMT 09T304 NN
0011514	CPMT 09T308 NN



Sip. No	Kod
0011515	DCMT 070204 NN
0011516	DCMT 11T304 NN
0011517	DCMT 11T308 NN



Sip. No	Kod
0011518	DNMG 110404 NN
0011519	DNMG 110408 NN
0011520	DNMG 150404 NN
0011521	DNMG 150408 NX
0011522	DNMG 150408 NN
0011523	DNMG 150412 NN
0011524	DNMG 150604 NN
0011525	DNMG 150608 NX
0011526	DNMG 150608 NN
0011527	DNMG 150612 NN



Sip. No	Kod
0011528	DNUX 150608 R11



Sip. No	Kod
0011529	KNUX 160405 L
0011530	KNUX 160405 R



Sip. No	Kod
0011531	RCMT 0602 M0
0011532	RCMT 0803 M0
0011533	RCMT 10T3 M0
0011534	RCMT 1204 M0



Sip. No	Kod
0011535	TNMG 160404 NN
0011536	TNMG 160408 NX
0011537	TNMG 160408 NN
0011538	TNMG 160412 NN
0011539	TNMG 220404 NN
0011540	TNMG 220408 NX
0011541	TNMG 220408 NN
0011542	TNMG 220412 NN



Sip. No	Kod
0011543	TNMP 160408 NN



Sip. No	Kod
0011544	TNUX 160404 L
0011545	TNUX 160404 R
0011546	TNUX 160408 L
0011547	TNUX 160408 R



Sip. No	Kod
0011548	TPMR 160304 NN
0011549	TPMR 160308 NN



Sip. No	Kod
0011550	VBMT 110304 NN
0011551	VBMT 160404 NN
0011552	VBMT 160408 NN



Sip. No	Kod
0011553	VCMT 160404 NN
0011554	VCMT 160408 NN



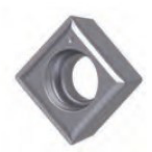
Sip. No	Kod
0011555	VNMG 160404 NN
0011556	VNMG 160408 NN



Sip. No	Kod
0011557	WNMG 060404 NN
0011558	WNMG 060408 NX
0011559	WNMG 060408 NN
0011560	WNMG 080404 NN
0011561	WNMG 080408 NX
0011562	WNMG 080408 NN
0011563	WNMG 080408 NM
0011564	WNMG 080412 NN



Sip. No	Kod
0011565	WNMP 060404 NN
0011566	WNMP 060408 NN
0011567	WNMP 080408 NN



Sip. No	Kod
0011568	SCMT 09T304 NN
0011569	SCMT 09T308 NN



Sip. No	Kod
0011570	SNMG 120408 NX
0011571	SNMG 120408 NN
0011572	SNMG 120412 NN



Sip. No	Kod
0011573	TCMT 110204 NN
0011574	TCMT 110208 NN
0011575	TCMT 16T304 NN
0011576	TCMT 16T308 NN
0011577	TCMT 16T312 NN



Sip. No	Kod
0011578	CCGT 060204 ALU
0011579	CCGT 09T304 ALU



Sip. No	Kod
0011580	CNGG 09T304 ALU
0011581	CNGG 120404 ALU
0011582	CNGG 120408 ALU



Sip. No	Kod
0011583	DCGT 11T304 ALU



Sip. No	Kod
0011584	DNGG 110404 ALU
0011585	DNGG 110408 ALU



Sip. No	Kod
0011586	TNGG 160404 ALU



Sip. No	Kod
0011587	VNGG 160404 ALU
0011588	VNGG 160404 ALU



Sip. No	Kod
0011589	WNGG 060404 ALU
0011590	WNGG 080404 ALU

UDRİL UÇLAR



Sip. No	Kod
0011591	SPMG 050204 NN
0011592	SPMG 060204 NN
0011593	SPMG 07T308 NN
0011594	SPMG 090408 NN
0011595	SPMG 110408 NN

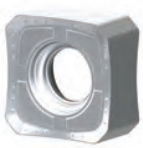


Sip. No	Kod
0011596	WCMX 040208 NN
0011597	WCMX 050308 NN
0011598	WCMX 06T308 NN
0011599	WCMX 080412 NN

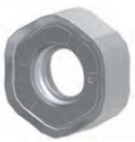
Milling



Sip. No	Kod
0011600	SEKT 1204 AFTN
0011601	SEKT 12T3 AGSN



Sip. No	Kod
0011602	SNKX 1205-45
0011603	SNKX 1607-45



Sip. No	Kod
0011604	HNKX 0604-45*



Sip. No	Kod
0011605	ONKX 0806-45



Sip. No	Kod
0011606	SDKT 1204 AETN



Sip. No	Kod
0011607	SPKN 1203 EDTR
0011608	SPKN 1204 EDTR
0011609	SPKN 1504 EDTR



Sip. No	Kod
0011610	SEKN 1203 AFTN
0011611	SEKN 1204 AFTN
0011612	SEKN 1504 AFTN



Sip. No	Kod
0011613	ODMT 0504 ZZTR
0011614	ODMT 060508 TN



Sip. No	Kod
0011615	ODMW 060508 TN



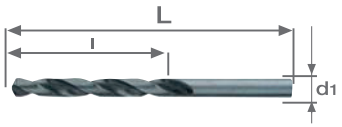
Sip. No	Kod
0011616	RDMT 0602 M0
0011617	RDMT 0702 M0
0011618	RDMT 0803 M0
0011619	RDMT 1003 M0
0011620	RDMT 10T3 M0
0011621	RDMT 1204 M0
0011622	RDMT 12T3 M0
0011623	RDMT 1604 M0



Sip. No	Kod
0011624	APKT 060204 PDTR
0011625	APKT 100308 PDTR
0011626	APKT 160408 PDTR



Sip. No	Kod
0011627	TPKN 1603 PDTR
0011628	TPKN 2204 PDTR



Standart Matkap Ucu

HSS

DIN 338 HSS

Sip. No	d1	L1	L2
0011629	0.40	20	5
0011630	0.50	22	6
0011631	0.60	24	7
0011632	0.70	28	9
0011633	0.80	30	10
0011634	0.90	32	11
0011635	1.00	34	12
0011636	1.10	36	14
0011637	1.20	38	16
0011638	1.30	38	16
0011639	1.40	40	18
0011640	1.50	40	18
0011641	1.60	43	20
0011642	1.70	43	20
0011643	1.80	46	22
0011644	1.90	46	22
0011645	2.00	49	24
0011646	2.10	49	24
0011647	2.20	53	27
0011648	2.30	53	27
0011649	2.40	57	30
0011650	2.50	57	30
0011651	2.60	57	30
0011652	2.70	61	33
0011653	2.80	61	33
0011654	2.90	61	33
0011655	3.00	61	33
0011656	3.10	65	36

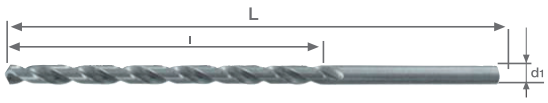
Sip. No	d1	L1	L2
0011657	3.20	65	36
0011658	3.30	65	36
0011659	3.40	70	39
0011660	3.50	70	39
0011661	3.60	70	39
0011662	3.70	70	39
0011663	3.80	75	43
0011664	3.90	75	43
0011665	4.00	75	43
0011666	4.10	75	43
0011667	4.20	75	43
0011668	4.30	80	47
0011669	4.40	80	47
0011670	4.50	80	47
0011671	4.60	80	47
0011672	4.70	80	47
0011673	4.80	86	52
0011674	4.90	86	52
0011675	5.00	86	52
0011676	5.10	86	52
0011677	5.20	86	52
0011678	5.30	86	52
0011679	5.40	93	57
0011680	5.50	93	57
0011681	5.60	93	57
0011682	5.70	93	57
0011683	5.80	93	57
0011684	5.90	93	57

Sip. No	d1	L1	L2
0011685	6.00	93	57
0011686	6.10	101	63
0011687	6.20	101	63
0011688	6.30	101	63
0011689	6.40	101	63
0011690	6.50	101	63
0011691	6.60	101	63
0011692	6.70	101	63
0011693	6.80	109	69
0011694	6.90	109	69
0011695	7.00	109	69
0011696	7.10	109	69
0011697	7.20	109	69
0011698	7.30	109	69
0011699	7.40	109	69
0011700	7.50	109	69
0011701	7.60	117	75
0011702	7.70	117	75
0011703	7.80	117	75
0011704	7.90	117	75
0011705	8.00	117	75
0011706	8.10	117	75
0011707	8.20	117	75
0011708	8.30	117	75
0011709	8.40	117	75
0011710	8.50	117	75
0011711	8.60	125	81
0011712	8.70	125	81
0011713	8.80	125	81
0011714	8.90	125	81
0011715	9.00	125	81
0011716	9.10	125	81
0011717	9.20	125	81
0011718	9.30	125	81
0011719	9.40	125	81
0011720	9.50	125	81
0011721	9.60	133	87
0011722	9.70	133	87

Sip. No	d1	L1	L2
0011723	9.80	133	87
0011724	9.90	133	87
0011725	10.00	133	87
0011726	10.10	133	87
0011727	10.20	133	87
0011728	10.30	133	87
0011729	10.40	133	87
0011730	10.50	133	87
0011731	10.60	133	87
0011732	10.70	142	94
0011733	10.80	142	94
0011734	10.90	142	94
0011735	11.00	142	94
0011736	11.10	142	94
0011737	11.20	142	94
0011738	11.30	142	94
0011739	11.40	142	94
0011740	11.50	142	94
0011741	11.60	142	94
0011742	11.70	142	94
0011743	11.80	142	94
0011744	11.90	151	101
0011745	12.00	151	101
0011746	12.10	151	101
0011747	12.20	151	101
0011748	12.30	151	101
0011749	12.40	151	101
0011750	12.50	151	101
0011751	12.60	151	101
0011752	12.70	151	101
0011753	12.80	151	101
0011754	12.90	151	101
0011755	13.00	151	101
0011756	13.10	151	101
0011757	13.20	151	101
0011758	13.30	160	108
0011759	13.40	160	108
0011760	13.50	160	108

Sip. No	d1	L1	L2
0011761	13.60	160	108
0011762	13.70	160	108
0011763	13.80	160	108
0011764	13.90	160	108
0011765	14.00	160	108
0011766	14.10	169	114
0011767	14.20	169	114
0011768	14.30	169	114
0011769	14.40	169	114
0011770	14.50	169	114
0011771	14.60	169	114
0011772	14.70	169	114
0011773	14.80	169	114
0011774	14.90	169	114
0011775	15.00	169	114
0011776	15.10	178	120
0011777	15.20	178	120
0011778	15.30	178	120
0011779	15.40	178	120
0011780	15.50	178	120
0011781	15.60	178	120
0011782	15.70	178	120
0011783	15.80	178	120
0011784	15.90	178	120
0011785	16.00	178	120
0011786	16.10	184	125
0011787	16.20	184	125
0011788	16.30	184	125
0011789	16.40	184	125
0011790	16.50	184	125
0011791	16.60	184	125
0011792	16.70	184	125
0011793	16.80	184	125
0011794	16.90	184	125
0011795	17.00	184	125
0011796	17.10	191	130
0011797	17.20	191	130
0011798	17.30	191	130

Sip. No	d1	L1	L2
0011799	17.40	191	130
0011800	17.50	191	130
0011801	17.60	191	130
0011802	17.70	191	130
0011803	17.80	191	130
0011804	17.90	191	130
0011805	18.00	191	130
0011806	18.10	198	135
0011807	18.20	198	135
0011808	18.30	198	135
0011809	18.40	198	135
0011810	18.50	198	135
0011811	18.60	198	135
0011812	18.70	198	135
0011813	18.80	198	135
0011814	18.90	198	135
0011815	19.00	198	135
0011816	19.10	205	140
0011817	19.20	205	140
0011818	19.30	205	140
0011819	19.40	205	140
0011820	19.50	205	140
0011821	19.60	205	140
0011822	19.70	205	140
0011823	19.80	205	140
0011824	19.90	205	140
0011825	20.00	205	140
0011826	20.50	213	145
0011827	21.00	213	145
0011828	21.50	221	150
0011829	22.00	221	150
0011830	22.50	229	155
0011831	23.00	229	155
0011832	23.50	229	155
0011833	24.00	236	160
0011834	24.50	236	160
0011835	25.00	236	160



Uzun Matkap Ucu

HSS

DIN 340 HSS

Sip. No	d1	L1	L2
0011836	1.00	56	33
0011837	1.10	60	37
0011838	1.20	65	41
0011839	1.30	65	41
0011840	1.40	70	45
0011841	1.50	70	45
0011842	1.60	76	50
0011843	1.70	76	50
0011844	1.80	80	53
0011845	1.90	80	53
0011846	2.00	85	56
0011847	2.10	85	56
0011848	2.20	90	59
0011849	2.30	90	59
0011850	2.40	95	62
0011851	2.50	95	62
0011852	2.60	95	62
0011853	2.70	100	66
0011854	2.80	100	66

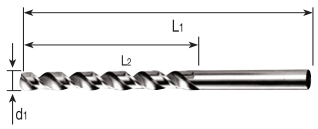
Sip. No	d1	L1	L2
0011855	2.90	100	66
0011856	3.00	100	66
0011857	3.10	106	69
0011858	3.20	106	69
0011859	3.30	106	69
0011860	3.40	112	73
0011861	3.50	112	73
0011862	3.60	112	73
0011863	3.70	112	73
0011864	3.80	119	78
0011865	3.90	119	78
0011866	4.00	119	78
0011867	4.10	119	78
0011868	4.20	119	78
0011869	4.30	126	82
0011870	4.40	126	82
0011871	4.50	126	82
0011872	4.60	126	82
0011873	4.70	126	82

Sip. No	d1	L1	L2
0011874	4.80	132	87
0011875	4.90	132	87
0011876	5.00	132	87
0011877	5.10	132	87
0011878	5.20	132	87
0011879	5.30	132	87
0011880	5.40	139	91
0011881	5.50	139	91
0011882	5.60	139	91
0011883	5.70	139	91
0011884	5.80	139	91
0011885	5.90	139	91
0011886	6.00	139	91
0011887	6.10	148	97
0011888	6.20	148	97
0011889	6.30	148	97
0011890	6.40	148	97
0011891	6.50	148	97
0011892	6.60	148	97

Sip. No	d1	L1	L2
0011893	6.70	148	97
0011894	6.80	156	102
0011895	6.90	156	102
0011896	7.00	156	102
0011897	7.10	156	102
0011898	7.20	156	102
0011899	7.30	156	102
0011900	7.40	156	102
0011901	7.50	156	102
0011902	7.60	165	109
0011903	7.70	165	109
0011904	7.80	165	109
0011905	7.90	165	109
0011906	8.00	165	109
0011907	8.10	165	109
0011908	8.20	165	109
0011909	8.30	165	109
0011910	8.40	165	109
0011911	8.50	165	109
0011912	8.60	175	115
0011913	8.70	175	115
0011914	8.80	175	115
0011915	8.90	175	115
0011916	9.00	175	115

Sip. No	d1	L1	L2
0011917	9.10	175	115
0011918	9.20	175	115
0011919	9.30	175	115
0011920	9.40	175	115
0011921	9.50	175	115
0011922	9.60	184	121
0011923	9.70	184	121
0011924	9.80	184	121
0011925	9.90	184	121
0011926	10.00	184	121
0011927	10.10	184	121
0011928	10.20	184	121
0011929	10.30	184	121
0011930	10.40	184	121
0011931	10.50	184	121
0011932	10.60	184	121
0011933	10.70	195	128
0011934	10.80	195	128
0011935	10.90	195	128
0011936	11.00	195	128
0011937	11.30	195	128
0011938	11.40	195	128
0011939	11.50	195	128
0011940	11.70	195	128

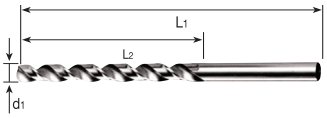
Sip. No	d1	L1	L2
0011941	11.80	195	128
0011942	11.90	205	134
0011943	12.00	205	134
0011944	12.20	205	134
0011945	12.30	205	134
0011946	12.50	205	134
0011947	12.70	205	134
0011948	12.80	205	134
0011949	13.00	205	134
0011950	13.20	205	134
0011951	13.50	214	140
0011952	14.00	214	140
0011953	14.50	220	144
0011954	15.00	220	144
0011955	15.50	227	149
0011956	16.00	227	149
0011957	16.50	235	154
0011958	17.00	235	154
0011959	17.50	241	158
0011960	18.00	241	158
0011961	18.50	247	162
0011962	19.00	247	162
0011963	19.50	254	166
0011964	20.00	254	166



Ekstra Uzun Matkap Ucu HSS

DIN 1869/1 HSS

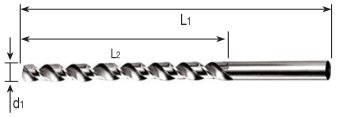
Sip. No	d1 (mm)	L1	L2
0011965	2.0	125	85
0011966	2.5	140	95
0011967	3.0	150	100
0011968	3.5	165	115
0011969	4.0	175	120
0011970	4.5	185	125
0011971	5.0	195	135
0011972	5.5	205	140
0011973	6.0	205	140
0011974	6.5	215	150
0011975	7.0	225	155
0011976	7.5	225	155
0011977	8.0	240	165
0011978	8.5	240	165
0011979	9.0	250	175
0011980	9.5	250	175
0011981	10.0	265	185
0011982	10.5	265	185
0011983	11.0	280	195
0011984	11.5	280	195
0011985	12.0	295	205
0011986	12.5	295	205
0011987	13.0	295	205



Ekstra Uzun Matkap Ucu HSS

DIN 1869/2 HSS

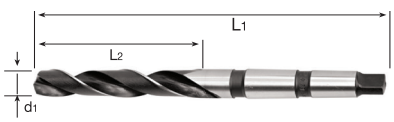
Sip. No	d1 (mm)	L1	L2
0011988	3.0	190	130
0011989	3.5	210	145
0011990	4.0	220	150
0011991	4.5	235	160
0011992	5.0	245	170
0011993	5.5	260	180
0011994	6.0	260	180
0011995	6.5	275	190
0011996	7.0	290	200
0011997	7.5	290	200
0011998	8.0	305	210
0011999	8.5	305	210
0012000	9.0	320	220
0012001	9.5	320	220
0012002	10.0	340	235
0012003	10.5	340	235
0012004	11.0	365	250
0012005	11.5	365	250
0012006	12.0	375	260
0012007	12.5	375	260
0012008	13.0	375	260



Ekstra Uzun Matkap Ucu HSS

DIN 1869/3 HSS

Sip. No	d1 (mm)	L1	L2
0012009	3.5	265	180
0012010	4.0	280	190
0012011	4.5	295	200
0012012	5.0	315	210
0012013	5.5	330	225
0012014	6.0	330	225
0012015	6.5	350	235
0012016	7.0	370	250
0012017	7.5	370	250
0012018	8.0	390	265
0012019	8.5	390	265
0012020	9.0	410	280
0012021	9.5	410	280
0012022	10.0	430	295
0012023	10.5	430	295
0012024	11.0	455	310
0012025	11.5	455	310
0012026	12.0	480	330
0012027	12.5	480	330
0012028	13.0	480	330



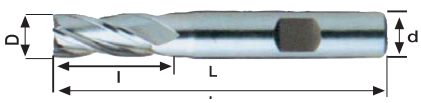
Mors Konik Saplı Matkap Ucu HSS

DIN 345 HSS

Sip. No	d1 (mm)	L1	L2
0012029	8.0	156	75
0012030	8.5	156	75
0012031	9.0	162	81
0012032	9.5	162	81
0012033	10.0	168	87
0012034	10.5	168	87
0012035	11.0	175	94
0012036	11.5	175	94
0012037	12.0	182	101
0012038	12.5	182	101
0012039	13.0	182	101
0012040	13.5	189	108
0012041	14.0	189	108
0012042	14.5	212	114
0012043	15.0	212	114
0012044	15.5	218	120
0012045	16.0	218	120
0012046	16.5	223	125
0012047	17.0	223	125
0012048	17.5	228	130

Sip. No	d1 (mm)	L1	L2
0012049	18.0	228	130
0012050	18.5	233	135
0012051	19.0	233	135
0012052	19.5	238	140
0012053	20.0	238	140
0012054	20.5	243	145
0012055	21.0	243	145
0012056	21.5	248	150
0012057	22.0	248	150
0012058	22.5	253	155
0012059	23.0	253	155
0012060	23.5	276	155
0012061	24.0	281	160
0012062	24.5	281	160
0012063	25.0	281	160
0012064	25.5	286	165
0012065	26.0	286	165
0012066	26.5	286	165
0012067	27.0	291	170
0012068	27.5	291	170
0012069	28.0	291	170
0012070	28.5	296	175
0012071	29.0	296	175
0012072	29.5	296	175
0012073	30.0	296	175
0012074	30.5	301	180
0012075	31.0	301	180

Sip. No	d1 (mm)	L1	L2
0012076	31.5	301	180
0012077	32.0	334	185
0012078	32.5	334	185
0012079	33.0	334	185
0012080	33.5	334	185
0012081	34.0	339	190
0012082	34.5	339	190
0012083	35.0	339	190
0012084	35.5	339	190
0012085	36.0	344	195
0012086	36.5	344	195
0012087	37.0	344	195
0012088	37.5	344	195
0012089	38.0	349	200
0012090	38.5	349	200
0012091	39.0	349	200
0012092	39.5	349	200
0012093	40.0	349	205
0012094	41.0	354	205
0012095	42.0	354	205
0012096	43.0	359	210
0012097	44.0	359	210
0012098	45.0	359	210
0012099	46.0	364	215
0012100	47.0	364	215
0012101	48.0	369	220
0012102	49.0	369	220
0012103	50.0	369	220



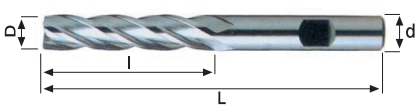
Kısa Parmak Freze HSS

DIN 844N HSS Co 5–8 (1402)

Sip. No	D	l	L	d h6	z
0012104	2,0	7	51	6	3
0012105	2,5	8	52	6	3
0012106	3,0	8	52	6	3
0012107	3.5	10	54	6	3
0012108	4,0	11	55	6	4
0012109	4.5	11	55	6	4
0012110	5,0	13	57	6	4
0012111	5.5	13	57	6	4
0012112	6,0	13	57	6	4
0012113	6.5	16	66	10	4
0012114	7,0	16	66	10	4
0012115	7.5	19	69	10	4
0012116	8,0	19	69	10	4
0012117	8.5	19	69	10	4
0012118	9,0	19	69	10	4
0012119	9.5	22	72	10	4

Sip. No	D	l	L	d h6	z
0012120	10,0	22	72	10	4
0012121	10.5	22	79	12	4
0012122	11,0	22	79	12	4
0012123	11.5	22	79	12	4
0012124	12,0	26	83	12	4
0012125	12.5	26	83	12	4
0012126	13,0	26	83	12	4
0012127	14,0	26	83	12	4
0012128	15,0	26	83	12	4
0012129	16,0	32	92	16	4
0012130	17,0	32	92	16	4
0012131	18,0	32	92	16	4
0012132	19,0	32	92	16	4
0012133	20,0	38	104	20	4
0012134	21,0	38	104	20	5
0012135	22,0	38	104	20	5

Sip. No	D	l	L	d h6	z
0012136	23,0	38	104	20	5
0012137	24,0	45	121	25	5
0012138	25,0	45	121	25	5
0012139	26,0	45	121	25	5
0012140	27,0	45	121	25	5
0012141	28,0	45	121	25	5
0012142	29,0	45	121	25	5
0012143	30,0	45	121	25	5
0012144	32,0	53	133	32	6
0012145	33,0	53	133	32	6
0012146	34	53	133	32	6
0012147	35	53	133	32	6
0012148	36	53	133	32	6
0012149	38	63	155	40	6
0012150	40	63	155	40	6

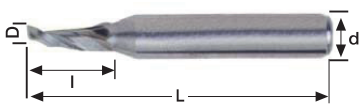


Uzun Parmak Freze HSS

DIN 844N HSS Co 5–8 (1412)

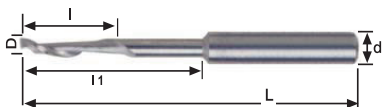
Sip. No	D	l	L	d h6	z
0012151	3	12	56	6	3
0012152	4	19	63	6	4
0012153	5	24	68	6	4
0012154	6	24	68	6	4
0012155	7	30	80	10	4
0012156	8	38	88	10	4
0012157	9	38	88	10	4
0012158	10	45	95	10	4
0012159	11	45	102	12	4
0012160	12	53	110	12	4
0012161	13	53	110	12	4
0012162	14	53	110	12	4
0012163	15	63	123	16	4
0012164	16	63	123	16	4
0012165	17	63	123	16	4

Sip. No	D	l	L	d h6	z
0012166	18	63	123	16	4
0012167	19	75	141	20	4
0012168	20	75	141	20	4
0012169	22	75	141	20	5
0012170	24	90	166	25	5
0012171	25	90	166	25	5
0012172	26	90	166	25	5
0012173	28	90	166	25	5
0012174	30	90	166	25	5
0012175	32	106	186	32	6
0012176	34	106	186	32	6
0012177	36	106	186	32	6
0012178	38	125	217	40	6
0012179	40	125	217	40	6



Alüminyum Freze Tip 1 HSS

Sip. No	D	l	L	d
0012180	3	12	60	8
0012181	4	12	60	8
0012182	4	14	60	6
0012183	4	20	120	8
0012184	5	12	60	6
0012185	5	13	60	8
0012186	5	18	60	8
0012187	5	25	70	8
0012188	5	25	100	8
0012189	5	14	120	8
0012190	6	14	60	8
0012191	6	16	60	8
0012192	7	16	60	8



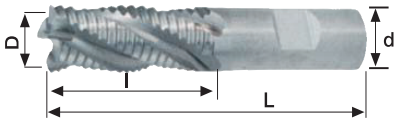
Alüminyum Freze Tip 2 HSS

Sip. No	D	l	L	d
0012193	4	16	45	90
0012194	5	18	35	80
0012195	5	18	35	80
0012196	5	18	35	100
0012197	5	25	55	100
0012198	5	14	75	120
0012199	6	14	35	80
0012200	6	18	35	100
0012201	8	14	54	80
0012202	8	30	70	100
0012203	8	14	90	120
0012204	10	25	45	90
0012205	10	30	70	100



Alüminyum Freze Tip 3 HSS

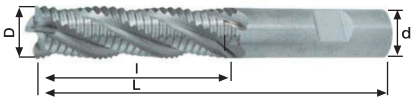
Sip. No	D	l	L	d
0012206	6	14	60	6
0012207	8	16	80	8
0012208	8	14	100	8
0012209	8	14	120	8
0012210	9	14	80	8
0012211	10	14	80	8
0012212	10	14	120	10
0012213	12	14	80	8
0012214	8	28	120	8
0012215	12	53	110	4
0012216	14	53	110	4



Silindir Saplı Kısa Kaba Talaş Freze HSS

Sip. No	D	l	L	d h6	z
0012217	8,0	19	69	10	4
0012218	10,0	22	72	10	4
0012219	12,0	26	83	12	4
0012220	14,0	26	83	12	4
0012221	16,0	32	92	16	4
0012222	18,0	32	92	16	4
0012223	20,0	38	104	20	4

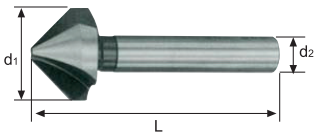
Sip. No	D	l	L	d h6	z
0012224	22,0	38	104	20	5
0012225	24,0	45	121	25	5
0012226	25,0	45	121	25	5
0012227	26,0	45	121	25	5
0012228	28,0	45	121	25	5
0012229	30,0	45	121	25	5
0012230	32,0	53	133	32	6



Silindir Saplı Uzun Kaba Talaş Freze HSS

Sip. No	D	l	L	d h6	z
0012231	8	38	88	10	4
0012232	10	45	95	10	4
0012233	12	53	110	12	4
0012234	14	53	110	12	4
0012235	16	63	123	16	4
0012236	18	63	123	16	4
0012237	20	75	141	20	4

Sip. No	D	l	L	d h6	z
0012238	22	75	141	20	5
0012239	24	90	166	25	5
0012240	25	90	166	25	5
0012241	26	90	166	25	5
0012242	28	90	166	25	5
0012243	30	90	166	25	5
0012244	32	106	186	32	6

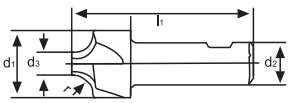


Silindir Saplı Havşa Matkabı 90° HSS

Sip. No	d1	d2	L
0012245	6.3	5	45
0012246	8.3	6	50
0012247	10.4	6	50
0012248	12.4	8	56

Sip. No	d1	d2	L
0012249	16.5	10	60
0012250	20.5	10	63
0012251	25	10	67
0012252	31.5	12	71





Köşe Radyus Freze HSS

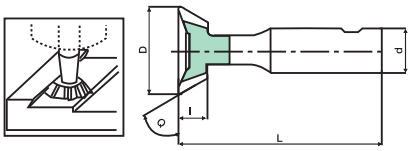
Sip. No	r	d1	d3	l1	d2
0012253	1	8	6	60	10
0012254	1.5	10	6	60	10
0012255	2	10	6	60	10
0012256	2.5	10	6	60	10
0012257	3	12	6	60	12
0012258	4	14	6	60	12
0012259	5	16	6	67	16
0012260	6	21	8	67	16
0012261	8	24	8	71	16
0012262	10	28	8	85	25
0012263	12	35	10	90	25
0012264	16	48	16	100	25



Sabit Pilot Freze HSS

Sip. No	Civata	D	d1	d2	L	l	l1
0012265	M 3	6	3.2	5	71	14	4
0012266	M 4	8	4.3	5	71	14	4
0012267	M 5	10	5.3	8	80	18	6
0012268	M 6	11	6.4	8	80	18	6
0012269	M 8	15	8.4	12.5	100	22	8
0012270	M 10	18	10.5	12.5	100	22	10
0012271	M 12	20	13.0	12.5	100	22	12



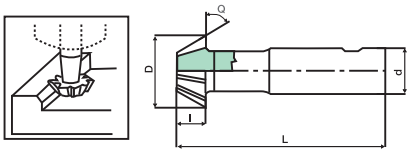


Kırlangıç Freze HSS

DIN 1833A HSS Co 5 (3302)

Sip. No	D	l	L	d h6	Z	Q
0012272	16	4	60	12	8	45°
0012273	20	5	63	12	10	45°
0012274	25	6.3	67	12	10	45°
0012275	32	8	71	16	12	45°
0012276	16	6.3	60	12	8	60°
0012277	20	8	63	12	10	60°
0012278	25	10	67	12	10	60°
0012279	32	12.5	71	16	12	60°



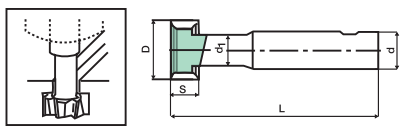


Kırlangıç Freze HSS

DIN 1833B HSS Co 5 (3302)

Sip. No	D	l	L	d h6	Z	Q
0012280	16	4	60	12	8	45°
0012281	20	5	63	12	10	45°
0012282	25	6.3	67	12	10	45°
0012283	32	8	71	16	12	45°
0012284	16	6.3	60	12	8	60°
0012285	20	8	63	12	10	60°
0012286	25	10	67	12	10	60°
0012287	32	12.5	71	16	12	60°



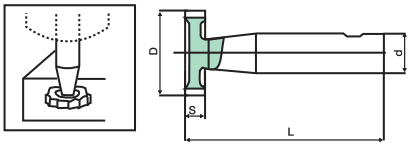


T–Yarık Freze Çapraz Dişli HSS

DIN 851 HSS Co 5 (3102)

Sip. No	D k11	S d11	L	d1	d h6	Z
0012288	12.5	6	57	5	10	6
0012289	16	8	62	7	10	6
0012290	18	8	70	8	12	8
0012291	21	9	74	10	12	8
0012292	25	11	82	12	16	8
0012293	28	12	85	13	16	8
0012294	32	14	90	15	16	8
0012295	32	12.5	71	16	12	60°





T–Yarık Freze Çapraz Dişli HSS

DIN 850 HSS Co 5 (3200)

Sip. No	D k10	S	L	d h6	z
0012296	10.5	2	50	6	8
0012297	10.5	3	50	6	8
0012298	13.5	3	56	10	8
0012299	13.5	4	56	10	8
0012300	16.5	3	56	10	8
0012301	16.5	4	56	10	8
0012302	16.5	5	56	10	8
0012303	19.5	4	63	10	8
0012304	19.5	5	63	10	8
0012305	19.5	6	63	10	8

Sip. No	D k10	S	L	d h6	z
0012306	22.5	5	63	10	8
0012307	22.5	6	63	10	8
0012308	22.5	8	63	10	8
0012309	25.5	6	63	10	10
0012310	28.5	6	63	10	10
0012311	28.5	8	63	10	10
0012312	28.5	10	71	12	10
0012313	32.5	8	71	12	10
0012314	32.5	10	71	12	10
0012315	45.5	10	71	12	14

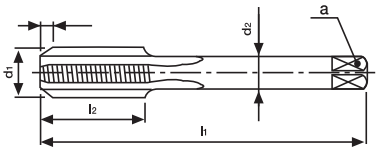


El Takım Kılavuz HSS

DIN 352

Sip. No	d1	P adım	l1	l2	d2	a
0012316	M 3	0.50	40	11	3.5	2.7
0012317	M 3.5	0.60	45	13	4.0	3.0
0012318	M 4	0.70	45	13	4.5	3.4
0012319	M 5	0.8	50	16	6.0	4.9
0012320	M 6	1.00	50	19	6.0	4.9
0012321	M 8	1.25	56	22	6.0	4.9
0012322	M 10	1.50	70	24	7.0	5.5
0012323	M 12	1.75	75	24	9.0	7.0
0012324	M 14	2.00	80	29	11.0	9.0
0012325	M 16	2.00	80	30	12.0	9.0
0012326	M 18	2.50	95	32	14.0	11.0
0012327	M 20	2.50	95	40	16.0	12.0
0012328	M 22	2.50	100	40	18.0	14.5
0012329	M 24	3.00	110	40	18.0	14.5
0012330	M 27	3.00	110	50	20.0	16.0
0012331	M 30	3.50	125	56	22.0	18.0



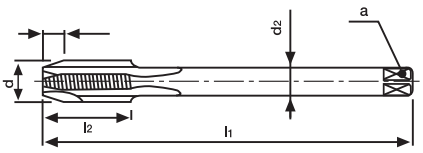


Whitworth Boru Vidalı Makina Kılavuzu HSS

DIN 5156 HSSE–GAZ DİŞ

Sip. No	d1	P adım	l1	l2	d2	a
0012332	G 1/16	28	52	14	5.6	4.5
0012333	G 1/8	28	59	15	8.0	6.3
0012334	G 1/4	19	67	19	10.0	8.0
0012335	G 3/8	19	75	21	12.5	10.0
0012336	G 1/2	14	87	26	16.0	12.5
0012337	G 5/8	14	91	26	18.0	14.0



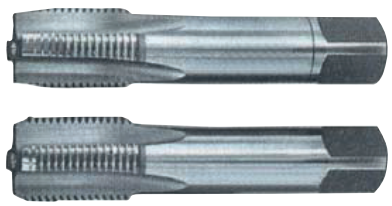


Metrik İnce Saplı Makina Kılavuzu HSSE

DIN 376 / C HSSE

Düz Kanal Uç Bilemeli (350)

Sip. No	d1	P adım	l1	l2	d2	a
0012338	M 4	0.70	63	13	2.8	2.1
0012339	M 5	0.80	70	16	3.5	2.7
0012340	M 6	1.00	80	19	4.5	3.4
0012341	M 8	1.25	90	22	6	4.9
0012342	M 10	1.50	100	24	7	5.5
0012343	M 12	1.75	110	29	9	7
0012344	M 14	2.00	110	30	11	9
0012345	M 16	2.00	110	32	12	9
0012346	M 18	2.5 0	125	34	14	11
0012347	M 20	2.50	140	34	16	12
0012348	M 22	2.50	140	34	18	14.5
0012349	M 24	3.00	160	38	18	14.5
0012350	M 27	3.00	160	38	20	16
0012351	M 30	3.50	180	45	22	18
0012352	M 33	3.50	180	50	25	20
0012353	M 36	4.00	200	56	28	22

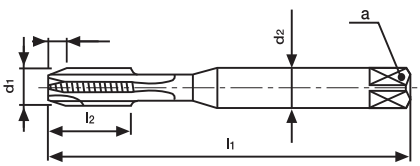


Whitworth Boru Vidalı El Kılavuzu HSS

DIN 1517 HSSE–GAZ DİŞ

Sip. No	d1	P adım	l1	l2	d2	a
0012362	G 1/8–28	28	90	20	20	5.5
0012363	G 1/4–19	19	100	22	22	9.0
0012364	G 3/8–19	19	100	22	22	9.0
0012365	G 1/2–14	14	125	25	25	12.0
0012366	G 5/8–14	14	125	25	25	14.5
0012367	G 3/4–14	14	140	28	28	16.0
0012368	G 1–11	1	160	30	30	20.0





Metrik Takviye Saplı Makina Kılavuzu HSSE

DIN 371 / B HSSE

Düz Kanal Uç Bilemeli (150)

Sip. No	d1	P adım	l1	l2	d2	a
0012354	M 3	0.50	56	11	3.5	2.7
0012355	M 3.5	0.60	56	13	4	3
0012356	M 4	0.70	63	13	4.5	3.4
0012357	M 4.5	0.75	70	16	6	4.9
0012358	M 5	0.80	70	16	6	4.9
0012359	M 6	1.00	80	19	6	4.9
0012360	M 8	1.25	90	22	8	6.2
0012361	M 10	1.50	100	24	10	8



Silindirik Saplı El Raybası HSS

Sağ Kesme Yönlü
Tolerans H7 HSS

Sip. No	d	L1	L2	k
0012369	3,0	62	31	2,24
0012370	4,0	76	38	3,15
0012371	4,5	81	41	3,55
0012372	5,0	87	44	4,00
0012373	5,5	93	47	4,50
0012374	6,0	93	47	4,50
0012375	6,5	100	50	5,00
0012376	7,0	107	54	5,60
0012377	8,0	115	58	6,30
0012378	8,5	115	58	6,30
0012379	9,0	124	62	7,10
0012380	10,0	133	66	8,00
0012381	11,0	142	71	9,00
0012382	12,0	152	76	10,00

Sip. No	d	L1	L2	k
0012383	13,0	152	76	10,00
0012384	14,0	163	81	11,20
0012385	15,0	163	81	11,20
0012386	16,0	175	87	12,50
0012387	17,0	175	87	12,50
0012388	18,0	188	93	14,00
0012389	20,0	201	100	16,00
0012390	22.0	215	107	18.00
0012391	24.0	231	115	20.00
0012392	26.0	231	115	20.00
0012393	30.0	247	124	22.40
0012394	32.0	265	133	25.00
0012395	35.0	284	142	28.00
0012396	40.0	305	152	31.50



Mors Konik Saplı Makina Raybası HSS

Sağ Kesme Yönlü
Tolerans H7 HSS

Sip. No	d1	L1	L2	Mors
0012397	8	156	33	1
0012398	10	168	38	1
0012399	11	175	41	1
0012400	12	182	44	1
0012401	13	182	44	1
0012402	14	189	47	1
0012403	15	204	50	2
0012404	16	210	52	2
0012405	17	214	54	2
0012406	18	219	56	2
0012407	19	223	58	2

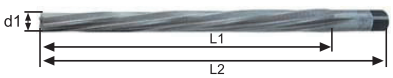
Sip. No	d1	L1	L2	Mors
0012408	20	228	60	2
0012409	22	237	64	2
0012410	24	268	68	3
0012411	25	268	68	3
0012412	28	277	71	3
0012413	30	281	73	3
0012414	32	317	77	4
0012415	35	321	78	4
0012416	40	329	81	4
0012417	45	336	83	4
0012418	50	344	86	4



Silindirik Saplı Makina Raybası HSS

Sağ Kesme Yönlü
Tolerans H7 HSS

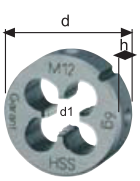
Sip. No	d1	d2	L1	L2
0012419	3	3	61	15
0012420	4	4	75	19
0012421	5	5	86	23
0012422	6	5.6	93	26
0012423	7	7.1	109	31
0012424	8	8	117	33
0012425	10	10	133	38
0012426	12	10	151	44
0012427	12.5	10	151	44
0012428	14	12.5	160	47
0012429	16	12.5	170	52
0012430	18	14	182	56
0012431	20	16	195	60



Konik Pim Deliği Raybası HSS

Sip. No	d1	L1	L2	Mors
0012432	3	80	58	3.15
0012433	4	93	68	4
0012434	5	100	73	5
0012435	6	135	105	6.3
0012436	7	180	145	8
0012437	8	215	175	10





Pafta HSS

Sip. No	d1	d2	h
0012438	M 3 x 0.5	20	5
0012439	M 3.5 x 0.6	20	5
0012440	M 4 x 0.7	20	5
0012441	M 5 x 0.8	20	7
0012442	M 6 x 1	20	9
0012443	M 7 x 1	25	9
0012444	M 8 x 1.25	25	9
0012445	M 9 x 1.25	25	11
0012446	M 10 x 1.50	30	14

Sip. No	d1	d2	h
0012447	M 12 x 1.75	38	14
0012448	M 14 x 2	38	14
0012449	M 16 x 2	45	18
0012450	M 18 x 2.5	45	18
0012451	M 20 x 2.5	45	18
0012452	M 22 x 2.5	55	22
0012453	M 24 x 3	55	22
0012454	M 27 x 3	65	25
0012455	M 30 x 3.5	65	25



Punta Matkabı HSS

Sip. No	D	L	d h7
0012456	1.00	31.5	3.15
0012457	1.25	31.5	3.15
0012458	1.60	35.5	4.00
0012459	2.00	40.0	5.00
0012460	2.50	45.5	6.30
0012461	3.15	50.0	8.00
0012462	4.00	56.0	10.00
0012463	5.00	63.0	12.50
0012464	6.30	71.0	16.00



Uzun Punta Matkabı HSS

Sip. No	D	L	d h7
0012465	2.00	76	5.00
0012466	2.50	102	6.30
0012467	3.15	102	8.00
0012468	4.00	127	10.00
0012469	5.00	127	12.50
0012470	6.30	127	16.00



Ters Kılavuz Takımı HSS

Sip. No	No	Metrik (mm)
0012471	5'li	3 ≈ 18
0012472	8'li	3 ≈ 45



Kılavuz Kolu

Sip. No	No	Metrik (mm)
0012473	0	1–8
0012474	1	1–10
0012475	2	3.5–12
0012476	3	5–20
0012477	4	11–27



Cırcırlı Kılavuz Kolu (Kısa Tip)

Sip. No	No	Metrik (mm)
0012478	10	3–10
0012479	20	2–12



Cırcırlı Kılavuz Kolu (Uzun Tip)

Sip. No	No	Metrik (mm)
0012480	10	3–10
0012481	20	2–12



Pafta Kolu

Sip. No	No	Metrik (mm)	x L
0012482	1	20 x 5	3–4
0012483	2	20 x 7	4.5–6
0012484	3	25 x 9	7–9
0012485	4	30 x 11	10–11
0012486	5	38 x 14	12–14
0012487	6	45 x 18	16–20



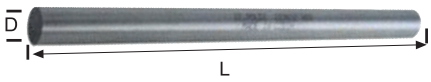
Anahtarlı Mandren

Sip. No	Ölçü	Bağlantı
0012488	1–10	B 12
0012489	1–13	B 16
0012490	3–16	B 18
0012491	5–20	B 22



Elle Sıkmalı Mandren

Sip. No	Ölçü	Bağlantı
0012492	0–10	B 12
0012493	1–13	B 16
0012494	3–16	B 18
0012495	5–20	B 22



Pantograf Kalemi HSS

Sip. No	D	L
0012496	4	100
0012497	5	100
0012498	6	100
0012499	8	100
0012500	8	125
0012501	10	100
0012502	10	125
0012503	10	160

Sip. No	D	L
0012504	12	125
0012505	12	160
0012506	12	200
0012507	14	100
0012508	14	125
0012509	14	200
0012510	16	125
0012511	16	200



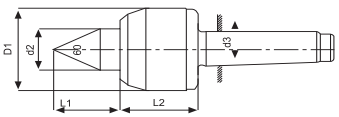
Kare Kesitli Torna Kalemi HSS

Sip. No	A x H	L
0012512	4 x 4	80
0012513	4 x 4	100
0012514	5 x 5	80
0012515	5 x 5	100
0012516	6 x 6	80
0012517	6 x 6	100
0012518	6 x 6	160
0012519	8 x 8	100
0012520	8 x 8	125

Sip. No	A x H	L
0012521	8 x 8	160
0012522	8 x 8	200
0012523	10 x 10	100
0012524	10 x 10	125
0012525	10 x 10	160
0012526	10 x 10	200
0012527	12 x 12	125
0012528	12 x 12	160
0012529	12 x 12	200

Sip. No	A x H	L
0012530	14 x 14	125
0012531	14 x 14	160
0012532	14 x 14	200
0012533	16 x 16	125
0012534	16 x 16	160
0012535	16 x 16	200
0012536	20 x 20	160
0012537	20 x 20	200
0012538	25 x 25	200

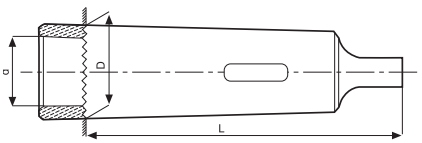




Döner Punta

Sip. No	Model	D1	d2	L1	d3
0012539	MK 2	50	24.5	32	17.78
0012540	MK 3	53	24.5	33	23.32
0012541	MK 4	68	39.5	50	31.26
0012542	MK 5	78	43.5	58	44.39
0012543	MK 6	98	53.5	80	63.34

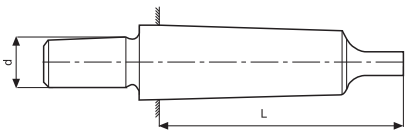




Mors Kovanı

Sip. No	Model	D	d	L
0012544	2 x 1	17.75	12.06	75
0012545	3 x 2	23.82	17.78	94
0012546	4 x 2	31.26	17.78	117.5
0012547	4 x 3	31.26	23.82	117.5
0012548	5 x 3	44.39	23.82	149.5
0012549	5 x 4	44.39	31.26	149.5
0012550	6 x 5	63.34	44.39	210

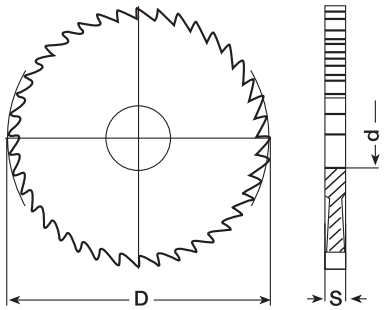




Mandren Koniği

Sip. No	Model	D	d	L
0012551	12 x 2	17.78	12	75
0012552	16 x 2	17.78	16	75
0012553	18 x 2	17.78	18	75
0012554	16 x 3	23.82	16	94
0012555	18 x 3	23.82	18	94
0012556	22 x 3	23.82	22	94
0012557	24 x 3	23.82	24	94
0012558	16 x 4	31.26	26	117.5
0012559	18 x 6	31.26	18	117.5
0012560	22 x 4	31.26	22	117.5
0012561	24 x 4	31.26	24	117.5





Daire Testere

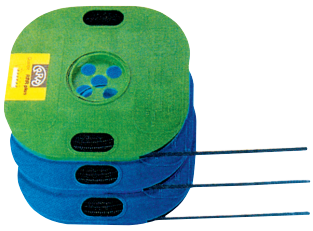
DIN 1837

Metal İçin Daire Testere

Sip. No	D x S	d	z
0012562	40 x 0.2	10	128
0012563	40 x 0.25	10	100
0012564	40 x 0.3	10	100
0012565	40 x 0.4	10	100
0012566	40 x 0.5	10	80
0012567	40 x 0.6	10	80
0012568	40 x 0.7	10	80
0012569	40 x 0.8	10	80
0012570	40 x 0.9	10	80
0012571	40 x 1.0	10	64
0012572	40 x 1.2	10	64
0012573	40 x 1.5	10	64
0012574	40 x 1.6	10	64
0012575	40 x 2.0	10	48
0012576	40 x 2.5	10	48
0012577	40 x 3.0	10	48
0012578	50 x 0.2	13	128
0012579	50 x 0.25	13	128
0012580	50 x 0.3	13	100
0012581	50 x 0.4	13	100
0012582	50 x 0.5	13	100
0012583	50 x 0.6	13	100
0012584	50 x 0.7	13	80
0012585	50 x 0.8	13	80
0012586	50 x 0.9	13	80
0012587	50 x 1.0	13	80
0012588	50 x 1.2	13	64
0012589	50 x 1.5	13	64
0012590	50 x 1.6	13	64
0012591	50 x 2.0	13	64
0012592	50 x 2.5	13	48
0012593	50 x 3.0	13	48

Sip. No	D x S	d	z
0012594	50 x 4.0	13	48
0012595	50 x 5.0	13	48
0012596	63 x 0.2	16	128
0012597	63 x 0.25	16	150
0012598	63 x 0.3	16	128
0012599	63 x 0.4	16	128
0012600	63 x 0.5	16	128
0012601	63 x 0.6	16	100
0012602	63 x 0.7	16	100
0012603	63 x 0.8	16	100
0012604	63 x 0.9	16	100
0012605	63 x 1.0	16	100
0012606	63 x 1.2	16	100
0012607	63 x 1.5	16	80
0012608	63 x 1.6	16	80
0012609	63 x 2.0	16	80
0012610	63 x 2.5	16	64
0012611	63 x 3.0	16	64
0012612	63 x 3.5	16	64
0012613	63 x 4.0	16	64
0012614	63 x 5.0	16	48
0012615	63 x 6.0	16	48
0012616	80 x 0.3	22	160
0012617	80 x 0.4	22	160
0012618	80 x 0.5	22	128
0012619	80 x 0.6	22	128
0012620	80 x 0.7	22	128
0012621	80 x 0.8	22	128
0012622	80 x 0.9	22	128
0012623	80 x 1.0	22	100
0012624	80 x 1.2	22	100
0012625	80 x 1.4	22	100

Sip. No	D x S	d	z
0012626	80 x 1.5	22	100
0012627	80 x 1.6	22	100
0012628	80 x 2.0	22	80
0012629	80 x 2.5	22	80
0012630	80 x 3.0	22	80
0012631	80 x 3.5	22	80
0012632	80 x 4.0	22	64
0012633	80 x 5.0	22	64
0012634	80 x 6.0	22	64
0012635	100 x 0.5	22	160
0012636	100 x 0.6	22	160
0012637	100 x 0.7	22	160
0012638	100 x 0.8	22	128
0012639	100 x 0.9	22	128
0012640	100 x 1.0	22	128
0012641	100 x 1.2	22	128
0012642	100 x 1.5	22	128
0012643	100 x 1.6	22	100
0012644	100 x 2.0	22	100
0012645	100 x 2.5	22	100
0012646	100 x 3.0	22	80
0012647	100 x 3.5	22	80
0012648	100 x 4.0	22	80
0012649	100 x 5.0	22	80
0012650	100 x 6.0	22	64
0012651	125 x 0.6	22	160
0012652	125 x 0.8	22	160
0012653	125 x 1.0	27	160
0012654	125 x 1.2	27	128
0012655	125 x 1.5	27	128
0012656	50 x 2.5	13	48
0012657	50 x 3.0	13	48



Dekopaj Testere

HSS / Bi–Metal

Sip. No	En x Diş	Diş Aralığı	Uzunluk
0012658	6 x 10	0.65 mm	30.5 m
0012659	6 x 12	0.65 mm	30.5 m
0012660	6 x 14	0.65 mm	30.5 m
0012661	6 x 18	0.65 mm	30.5 m
0012662	8 x 10	0.65 mm	30.5 m
0012663	8 x 12	0.65 mm	30.5 m

Sip. No	En x Diş	Diş Aralığı	Uzunluk
0012664	8 x 14	0.65 mm	30.5 m
0012665	8 x 18	0.65 mm	30.5 m
0012666	10 x 10	0.65 mm	30.5 m
0012667	10 x 12	0.65 mm	30.5 m
0012668	10 x 14	0.65 mm	30.5 m
0012669	10 x 18	0.65 mm	30.5 m



Makina ve El Testereleri

Ölçü
300 x 30 x 1.5 Z = 6
300 x 30 x 1.5 Z = 8
350 x 30 x 1.5 Z = 6
350 x 30 x 1.5 Z = 8
300 x 30 x 1.5 Z = 10
400 x 35 x 1.5 Z = 6
400 x 35 x 1.5 Z = 8

Ölçü
400 x 40 x 1.5 Z = 6
400 x 40 x 1.5 Z = 8
450 x 35 x 1.5 Z = 6
450 x 35 x 1.5 = 8
450 x 40 x 2.0 = 6
450 x 40 x 2.0 = 8
450 x 40 x 2.0 = 10

Ölçü
500 x 40 x 2.0 = 4
500 x 40 x 2.0 = 6
500 x 40 x 2.0 = 8
500 x 40 x 2.0 = 10
500 x 50 x 2.5 = 6
500 x 50 x 2.5 = 8



0100–İki Ağız Açık Anahtar

Ağız Ölçüleri (mm)			
04 x 05	11 x 14	16 x 17	21 x 23
06 x 07	12 x 13	17 x 19	22 x 24
08 x 09	12 x 14	18 x 19	24 x 26
08 x 10	13 x 14	18 x 20	24 x 27
10 x 11	14 x 15	18 x 22	25 x 28
10 x 12	13 x 17	19 x 22	27 x 32
10 x 13	14 x 17	20 x 22	30 x 32



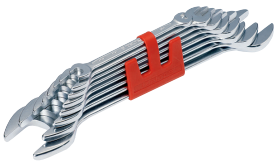
0320–Kombine Anahtar

Ağız Ölçüleri (mm)			
5	12	19	26
6	13	20	27
7	14	21	28
8	15	22	29
9	16	23	30
10	17	24	32
11	18	25	34



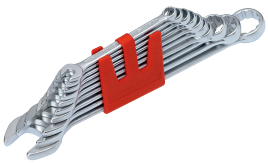
0430–Yıldız İki Ağız Anahtar

Ağız Ölçüleri (mm)			
06 x 07	14 x 15	20 x 22	27 x 32
08 x 09	13 x 17	21 x 23	30 x 32
08 x 10	14 x 17	22 x 24	30 x 36
10 x 11	16 x 17	24 x 26	32 x 36
10 x 12	16 x 18	24 x 27	34 x 36
11 x 13	17 x 19	25 x 28	36 x 41
12 x 13	18 x 19	27 x 29	41 x 46
12 x 14	19 x 22	27 x 30	46 x 50



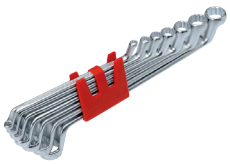
0161–İki Ağız Açık Anahtar Takım

Sip. No	Set	Ağız Ölçüleri (mm)
0012670	6'lı	6x7–8x9–10x11 12x13–14x15–16x17
0012671	8'li	6x7–8x9–10x11–12x13 14x15–16x17–18x19–20x22
0012672	10'lu	6x7-8x9-10x11-12x13-14x15 16x17-18x19-20x22-21x23-24x26
0012673	12'li	6x7-8x9-10x11-12x13-14x15-16x17 18x19-20x22-21x23-24x26-25x28-30x32



0320–Kombine Anahtar Takım

Sip. No	Set	Ağız Ölçüleri (mm)
0012674	6'lı	8–9–11–13–17–19
0012675	8'li	6–7–8–9–10–13–17–19
0012676	10'lu	8-9-10-11-12-13-14-17-19-22
0012677	12'li	8-9-10-11-12-13-14-15-16-17-19-22
0012678	17'li	6-7-8-9-10-11-12-13-14 15-16-17-18-19-20-21-22
0012679	21'li	6-7-8-9-10-11-12-13-14-15-16 17-18-19-20-21-22-24-27-30-32



0430–Yıldız İki Ağız Anahtar Takım

Sip. No	Set	Ağız Ölçüleri (mm)
0012680	6'lı	6x7–8x9–10x11 12x13–14x15–16x17
0012681	8'li	6x7–8x9–10x11–12x13 14x15–16x17–18x19–20x22
0012682	10'lu	6x7-8x9-10x11-12x13-14x15 16x17-18x19-20x22-21x23-24x26
0012683	12'li	6x7-8x9-10x11-12x13-14x15-16x17 18x19-20x22-21x23-24x26-25x28-30x32



0340–Cırcır Kombine Anahtar

Ağız Ölçüleri (mm)			
8	12	16	21
9	13	17	22
10	14	18	24
11	15	19	



0600–Kurbağacık Anahtar

Sip No.	Tam Boy	Tam Boy	Ağız Açma
0012684	160	6"	18
0012685	208	8"	23
0012686	260	10"	28
0012687	308	12"	34
0012688	388	15"	43



4921

Yuvarlak Başlı T Tipi Allen Anahtar

Sip. No	⬣	Kısa Uç	Uzun Uç
0012689	2,5	110	14
0012690	3	125	17
0012691	4	140	20
0012692	5	155	23

Sip. No	⬣	Kısa Uç	Uzun Uç
0012693	6	170	26
0012694	7	185	30
0012695	8	200	34
0012696	10	220	40



4900–Allen Anahtar Takım Altı Köşe

Sip. No	İçerik (mm)
0012697	2–2.5–3–3.5–4–5–6–7–8–9–10–12



4906–Topbaşlı Allen Anahtar Takım Altı Köşe

Sip. No	İçerik (mm)
0012698	2–2.5–3–3.5–4–5–6–7–8–9–10–12



1513–1/2" Cırcır Kolu (32 Diş)

Sip. No	İçerik (mm)
0012699	250



1/2" Altı Köse Lokma Anahtar

(mm)			
8	14	20	26
9	15	21	27
10	16	22	28
11	17	23	29
12	18	24	30
13	19	25	32



1/2" Lokmalı Allen Uç

(mm)			
4	6	8	12
5	7	10	14



1/2" Lokmalı Star (Torx) Uç

T20	T27	T40	T50
T25	T30	T45	T60



1/2" Lokmalı Allen

Sip. No	Ölçü	d1	d2	L
0012700	4 mm	6	25	78
0012701	5 mm	6	25	78
0012702	6 mm	6	25	78
0012703	8 mm	11	25	78
0012704	10 mm	11	25	78
0012705	12 mm	11	25	78
0012706	14 mm	14	25	78
0012707	17 mm	16	25	78
0012708	19 mm	20	25	78



1/2" Torx Lokma

Sip. No	Ölçü	d1	d2	L
0012709	T25	10	25	78
0012710	T27	10	25	78
0012711	T30	10	25	78
0012712	T40	10	25	78
0012713	T45	10	25	78
0012714	T50	10	25	78
0012715	T60	10	25	78



1/2" Havalı Uzun Lokma

Ölçüler
8-9-10-11-12-13-14-15-16-17-18-19-20 21-22-23-24-25-26-2728-29-30-32-36



1/2" Uzatma Kolu

Sip. No	Ölçü
0012716	75 mm
0012717	125 mm
0012718	150 mm
0012719	200 mm
0012720	250 mm



1/2" Adaptör

Sip. No	Ölçü
0012721	F: 1/2"—M: 3/8" Adaptör
0012722	F: 1/2"—M: 3/4" Adaptör
0012723	1/2 Mafsallı Adaptör
0012724	1/2 Yedek Adaptör Karesi



Kraft Seri Düz Uçlu Tornavida

Ölçü			
3 x 40	5 x 100	6 x 150	8 x 150
3 x 80	5 x 125	6 x 175	8 x 175
4 x 80	5 x 150	7 x 125	8 x 200
4 x 100	6 x 100	7 x 150	9 x 200
5 x 80	6 x 125	7 x 175	11 x 250



Düz Bits Uç

Sip. No	⊖	Boy
0012725	0.6 x 4.5	25
0012726	0.8 x 5.5	25
0012727	1.2 x 6.5	25
0012728	0.6 x 4.5	50
0012729	0.8 x 5.5	50
0012730	1.2 x 6.5	50



Yıldız Bits Uç

Sip. No	⊖	Boy
0012731	Ph1	25
0012732	Ph2	25
0012733	Ph3	25
0012734	Ph1	50
0012735	Ph2	50
0012736	Ph3	50



Kraft Seri Yıldız Uçlu Tornavida

Ölçü		
3 x 60	4.5 x 150	6 x 200
4.5 x 80	6 x 100	8 x 150
4.5 x 100	6 x 150	10 x 200



Lokma Uçlu Tornovida

Sip. No	⬡	Tam Boy
0012737	4	220
0012738	5	220
0012739	5.5	220
0012740	6	220
0012741	7	230
0012742	8	230

Sip. No	⬡	Tam Boy
0012743	9	230
0012744	10	230
0012745	11	230
0012746	12	230
0012747	13	230
0012748	14	230



Torx Uçlu Tornavida

Sip. No	✸	Ø	Tam Boy
0012749	T10	4	165
0012750	T15	4	165
0012751	T20	4	185
0012752	T25	4.5	185

Sip. No	✸	Ø	Tam Boy
0012753	T27	5	220
0012754	T30	6	220
0012755	T40	7	230
0012756	T45	8	230



Kraft Seri Tornavida Seti 7 Parça

Sip. No	●	●
0012757	3x80-4x80-4x100 5x125-6x150	4.5 x 80 6 x 100



Elektronikçi Tornavida Seti 6 Parça

Sip. No	●	●
0012758	3x80-3x100 3x125-4x150	3 x 60 4 x 80



Lokma Uçlu Tornavida Seti 8 Parça

Sip. No	✸
0012759	6–7–8–9 10–11–12–13



Elektrik Kontrol Kalemi

Sip. No	Ölçüler
0012760	3 x 135
0012761	4 x 190



Uzun Kargaburnu Düz Uçlu Opak

Sip. No	Tam Boy	Tam Boy
0012762	140	5 1/2"
0012763	160	6 1/4"
0012764	180	7 1/8"
0012765	200	8"



Kombine Pense Opak

Sip. No	Tam Boy	Tam Boy
0012766	160	6 1/4"
0012767	180	7 1/8"
0012768	200	8"



Yan Keski Opak

Sip. No	Tam Boy	Tam Boy
0012769	140	5 1/2"
0012770	160	6 1/4"
0012771	180	7 1/8"



Elektronikçi Pense

Sip. No	Tam Boy
0012772	160
0012773	180
0012774	200



Elektronikçi Düz Uçlu Kargaburun

Sip. No	Tam Boy
0012775	160
0012776	200



Elektronikçi Yan Keski

Sip. No	Tam Boy
0012777	140
0012778	160
0012779	180



Dış Segman Pensi Yaylı Düz

Sip. No	Tam Boy	⌒
0012780	140	10–25
0012781	180	19–60
0012782	225	40–100
0012783	295	85–165



Dış Segman Pensi Yaylı Eğri

Sip. No	Tam Boy	⌒
0012784	125	10–25
0012785	170	19–60
0012786	210	40–100
0012787	275	85–165



İç Segman Pensi Yaysız Düz

Sip. No	Tam Boy	⌒
0012788	140	8–25
0012789	180	19–60
0012790	225	40–100
0012791	310	85–165



Stilson Boru Anahtarı

Sip. No	Tam Boy	Ağız Açma
0012792	200	27
0012793	250	34
0012794	300	42
0012795	350	50

Sip. No	Tam Boy	Ağız Açma
0012796	450	60
0012797	600	76
0012798	900	100



Maşalı Boru Anahtarı (85°)

Sip. No	Tam Boy	Ağız Açma
0012799	325	40
0012800	430	60
0012801	585	70

Sip. No	Tam Boy	Ağız Açma
0012802	690	100
0012803	760	130



İç Segman Pensi Yaysız Eğri

Sip. No	Tam Boy	⌒
0012804	130	8–25
0012805	170	19–60
0012806	210	40–100
0012807	290	85–165



Universal Fort Pense

Sip. No	Tam Boy	Ağız Açma
0012808	160	30
0012809	240	35
0012810	305	40



Tenekeci Makası Yaylı

Sip. No	Tam Boy
0012811	250
0012812	300



Universal Ayarlı Pense

Sip. No	Tam Boy	Ağız Açma
0012813	250	30



Oluklu Levye

Sip. No	Tam Boy
0012814	300
0012815	400
0012816	500
0012817	600



Kaportacı Makası

Sip. No	Tam Boy
0012818	250
0012819	275
0012820	300



Madeni Yağdanlık

Sip. No	cc
0012821	200
0012822	300
0012823	500



Tesviyeci Çekici

Sip. No	L	L1
0012824	260	82
0012825	280	95
0012826	300	105
0012827	320	118

Sip. No	L	L1
0012828	350	130
0012829	360	135
0012830	380	145
0012831	400	155



Plastik Tokmak

Sip. No	L	L1
0012832	300	105
0012833	305	115
0012834	310	125

Sip. No	L	L1
0012835	325	135
0012836	385	155



Plastik Çekiç ve Yedeği

Sip. No	L	Ø
0012837	300	30
0012838	320	40
0012839	350	50



Bakır Çekiç

Sip. No
0012840



Gres Pompası

Sip. No	Kapasite
0012841	300 cc
0012842	500 cc

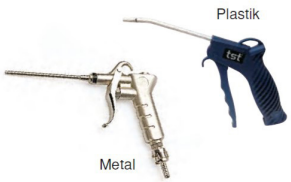


Fırçalar



Hortum Kelepçeleri

Sip. No	Anma	d	D
0012843	10 / 16	10	16
0012844	13 / 19	13	19
0012845	16 / 23	16	23
0012846	18 / 25	18	25



Hava Tabancası

Sip. No	Ölçü	Bağlantı Tipi
0012847	Kısa	1 / 4
0012848	Uzun	1 / 4



Spiral Hava Hortumu

Sip. No	Ölçü	Bağlantı Tipi	D	d
0012849	7.5 metre	1/4	8	5
0012850	15 metre	1/4	8	5



Şerit Testereler

Sip. No	W x H	Diş Sayısı
0012851	20 x 0.9	6
0012852		8
0012853		10
0012854		12
0012855		14
0012856		3/4
0012857		4/6
0012858		5/8
0012859		6/10
0012860		8/12

Sip. No	W x H	Diş Sayısı
0012861	27 x 0.9	4
0012862		6
0012863		8
0012864		10
0012865		14
0012866		2/3
0012867		3/4
0012868		4/6
0012869		5/8
0012870		6/10
0012871		8/12

Sip. No	W x H	Diş Sayısı
0012872	34 x 1.1	4
0012873		6
0012874		2/3
0012875		3/4
0012876		4/6
0012877		5/8
0012878		6/10

Sip. No	W x H	Diş Sayısı
0012879	41 x 1.3	4
0012880		2/3
0012881		3/4
0012882		4/6
0012883		5/8
0012884	54 x 1.6	2/3
0012885		3/4



SYG2016–İstif Makinesi

Sip. No
0012886

Sürüş Tipi	: Manuel
Kaldırma Tipi	: Manuel
Taşıma Kapasitesi	: 2000 kg
Yük Merkezi	: 500 mm
Yerden Kaldırma Kaldırma Yüksekliği	: 1600 mm
Çatallar Arası Mesafe	: 200-900 mm
Çatal Uzunluğu	: 1150 mm
Çatal Genişliği	: 160 mm
Çatal Kalınlığı	: 50 mm
Çatal Dahil Toplam Uzunluğu	: 1430 mm
Çatal Hariç Toplam Uzunluğu	: 280 mm
Genişliği	: 1000 mm
Kapalı Boy Yüksekliği	: 1980 mm
Ağırlık	: 280 kg
Teker Tipi	: Poliurethan
Fren	: Manuel



SYG1516–İstif Makinesi

Sip. No
0012887

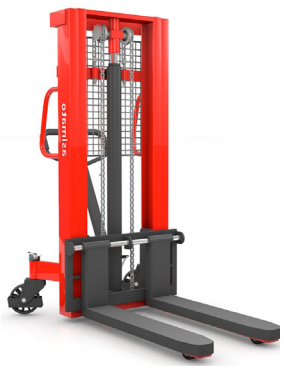
Sürüş Tipi	: Manuel
Kaldırma Tipi	: Manuel
Taşıma Kapasitesi	: 1500 kg
Yük Merkezi	: 500 mm
Yerden Kaldırma Kaldırma Yüksekliği	: 1600 mm
Çatallar Arası Mesafe	: 200-900 mm
Çatal Uzunluğu	: 1150 mm
Çatal Genişliği	: 160 mm
Çatal Kalınlığı	: 50 mm
Çatal Dahil Toplam Uzunluğu	: 1430 mm
Çatal Hariç Toplam Uzunluğu	: 280 mm
Genişliği	: 1000 mm
Kapalı Boy Yüksekliği	: 1980 mm
Ağırlık	: 260 kg
Teker Tipi	: Poliurethan
Fren	: Manuel



FP0415–İstif Makinesi

Sip. No
0012888

Sürüş Tipi	: Manuel
Kaldırma Tipi	: Manuel
Taşıma Kapasitesi	: 400 kg
Yerden Kaldırma Kaldırma Yüksekliği	: 1425 mm
Platform Uzunluğu	: 650 mm
Platform Genişliği	: 576 mm
Genişliği	: 600 mm
Kapalı Boy Yüksekliği	: 1725 mm
Ağırlık	: 91 kg
Teker Tipi	: Poliurethan
Fren	: Manuel



SYG1025–İstif Makinesi

Sip. No
0012889

Sürüş Tipi	: Manuel
Kaldırma Tipi	: Manuel
Taşıma Kapasitesi	: 1000 kg
Yük Merkezi	: 500 mm
Yerden Kaldırma Kaldırma Yüksekliği	: 2500 mm
Çatallar Arası Mesafe	: 200-900 mm
Çatal Uzunluğu	: 1150 mm
Çatal Genişliği	: 160 mm
Çatal Kalınlığı	: 50 mm
Çatal Dahil Toplam Uzunluğu	: 1525 mm
Çatal Hariç Toplam Uzunluğu	: 375 mm
Genişliği	: 790 mm
Kapalı Boy Yüksekliği	: 1830 mm
Ağırlık	: 300 kg
Teker Tipi	: Poliurethan
Fren	: Manuel



EMS20–İstif Makinesi

Sip. No
0012890

Sürüş Tipi	: Manuel
Kaldırma Tipi	: Akü
Taşıma Kapasitesi	: 2000 kg
Yük Merkezi	: 400 mm
Yerden Kaldırma Yüksekliği	: 2000 mm
Çatallar Arası Mesafe	: 300-680 mm
Çatal Uzunluğu	: 1150 mm
Çatal Genişliği	: 160 mm
Çatal Kalınlığı	: 50 mm
Çatal Dahil Toplam Uzunluğu	: 670 mm
Çatal Hariç Toplam Uzunluğu	: 810 mm
Genişliği	: 1580 mm
Kapalı Boy Yüksekliği	: 2560 mm
Ağırlık	: 470 kg
Teker Tipi	: Poliurethan/Nylon
Fren	: Manuel



EMS15–İstif Makinesi

Sip. No
0012891

Sürüş Tipi	: Manuel
Kaldırma Tipi	: Akü
Taşıma Kapasitesi	: 1500 kg
Yük Merkezi	: 400 mm
Yerden Kaldırma Yüksekliği	: 2500 mm
Çatallar Arası Mesafe	: 300-680 mm
Çatal Uzunluğu	: 1150 mm
Çatal Genişliği	: 160 mm
Çatal Kalınlığı	: 50 mm
Çatal Dahil Toplam Uzunluğu	: 1820 mm
Çatal Hariç Toplam Uzunluğu	: 670 mm
Genişliği	: 810 mm
Kapalı Boy Yüksekliği	: 1830 mm
Ağırlık	: 470 kg
Teker Tipi	: Poliurethan/Nylon
Fren	: Manuel



PS20–İstif Makinesi

Sip. No
0012892

Sürüş Tipi	: Ayakta
Kaldırma Tipi	: Akü
Taşıma Kapasitesi	: 2000 kg
Yük Merkezi	: 600 mm
Yerden Kaldırma Yüksekliği	: 2815 mm
Çatallar Arası Mesafe	: 570 mm
Çatal Uzunluğu	: 1150 mm
Çatal Genişliği	: 185 mm
Çatal Kalınlığı	: 60 mm
Çatal Dahil Toplam Uzunluğu	: 2083 mm
Çatal Hariç Toplam Uzunluğu	: 933 mm
Genişliği	: 1000 mm
Kapalı Boy Yüksekliği	: 2080 mm
Ağırlık	: 1460 kg
Teker Tipi	: Poliurethan
Fren	: Elektromanyetik



ECL10–İstif Makinesi

Sip. No
0012893

Sürüş Tipi	: Yaya
Kaldırma Tipi	: Akü
Taşıma Kapasitesi	: 1000 kg
Yük Merkezi	: 600 mm
Yerden Kaldırma Yüksekliği	: 2840 mm
Çatallar Arası Mesafe	: 570 mm
Çatal Uzunluğu	: 1150 mm
Çatal Genişliği	: 150 mm
Çatal Kalınlığı	: 60 mm
Çatal Dahil Toplam Uzunluğu	: 1800 mm
Çatal Hariç Toplam Uzunluğu	: 650 mm
Genişliği	: 800 mm
Kapalı Boy Yüksekliği	: 1950 mm
Ağırlık	: 510 kg
Teker Tipi	: Poliurethan
Fren	: Elektromanyetik



WB50–Transpalet

Sip. No
0012894

Taşıma Kapasitesi	: 5000 kg
Yük Merkezi	: 600 mm
Çatallar Arası Mesafe	: 550 mm
Minimum Kaldırma Yüksekliği	: 85 mm
Maksimum Kaldırma Yüksekliği	: 200 mm
Çatal Uzunluğu	: 1150 mm
Çatal Genişliği	: 160 mm
Çatal Kalınlığı	: 60 mm
Çatal Dahil Toplam Uzunluğu	: 1544 mm
Çatal Hariç Toplam Uzunluğu	: 394 mm
Genişliği	: 580 mm
Dıştan Dönüş Yarıçap	: 1300 mm
800x1200mm için Çalışma Genişliği	: 1794 mm
Ağırlık	: 103 kg
Ön Teker Sayısı	: 2
Arka Teker Sayısı	: 4
Ön Teker Ölçüsü	: 200x50 mm
Arka Teker Ölçüsü	: 85x80 mm
Teker Tipi	: Nylon



BF25–Transpalet

Sip. No
0012895

Taşıma Kapasitesi	: 2500 kg
Yük Merkezi	: 600 mm
Çatallar Arası Mesafe	: 520 mm
Minimum Kaldırma Yüksekliği	: 85 mm
Maksimum Kaldırma Yüksekliği	: 200 mm
Çatal Uzunluğu	: 1150 mm
Çatal Genişliği	: 160 mm
Çatal Kalınlığı	: 60 mm
Çatal Dahil Toplam Uzunluğu	: 1533 mm
Çatal Hariç Toplam Uzunluğu	: 383 mm
Genişliği	: 580 mm
Dıştan Dönüş Yarıçap	: 1335 mm
800x1200mm için Çalışma Genişliği	: 1794 mm
Ağırlık	: 75 kg
Ön Teker Sayısı	: 2
Arka Teker Sayısı	: 4
Ön Teker Ölçüsü	: 200x50 mm
Arka Teker Ölçüsü	: 80x70 mm
Teker Tipi	: Poliurethan / Nylon



TPW–Terazili Transpalet

Sip. No
0012896

Taşıma Kapasitesi	: 2000
Yük Merkezi	: 600
Çatallar Arası Mesafe	: 540
Minimum Kaldırma Yüksekliği	: 85
Maksimum Kaldırma Yüksekliği	: 200
Çatal Uzunluğu	: 1150
Çatal Genişliği	: 160
Çatal Kalınlığı	: 60
Çatal Dahil Toplam Uzunluğu	: 1533
Çatal Hariç Toplam Uzunluğu	: 383
Genişliği	: 580
Dıştan Dönüş Yarıçap	: 1335
800x1200mm için Çalışma Genişliği	: 1794
Ağırlık	: 95
Ön Teker Sayısı	: 2
Arka Teker Sayısı	: 4
Ön Teker Ölçüsü	: 200x50
Arka Teker Ölçüsü	: 80x70
Teker Tipi	: Poliurethan / Nylon



PT20–Akülü Transpalet

Sip. No
0012897

Sürüş Tipi	: Ayakta	**Yüklü İndirme Hızı**	: 350 mm/dak
Güç Sağlayıcı	: Akü	**Yüklü Çalışma Eğimi**	: 6 %
Sürüş Motor Tipi	: AC	**Ağırlık**	: 634 kg
Taşıma Kapasitesi	: 2000 kg	**Dingiller Arası Mesafe**	: 1388 mm
Yük Merkezi	: 600 mm	**Ön Teker Sayısı**	: 1 x 2 +2
Yerden Kaldırma Yüksekliği	: 120 mm	**Arka Teker Sayısı**	: 2 + 2 / 4
Çatallar Arası Mesafe	: 540 mm	**Ön Teker Ölçüsü**	: 230x75 mm
Çatal Uzunluğu	: 1150 mm	**Arka Teker Ölçüsü**	: 84x84 mm
Çatal Genişliği	: 173 mm	**Teker Tipi**	: Poliurethan
Çatal Kalınlığı	: 60 mm	**Yürüyüş Motoru**	: 1.3 kW
Çatal Dahil Toplam Uzunluğu	: 1762 mm	**Kaldırma Motoru**	: 0.8 kW
Çatal Hariç Toplam Uzunluğu	: 612 mm	**Akü Voltaj Kapasitesi**	: 24/200 V/Ah
Genişliği	: 729 mm	**Şarj Cihazı Kapasitesi**	: 220 V
Dıştan Dönüş Yarıçap	: 1585 mm	**Fren**	: Elektormanyetik
800x1200mm için Çalışma Genişliği	: 2250 mm	**Gürültü Seviyesi**	: 69 dbA
Yüklü Yürüyüş Hızı	: 6.00 km/saat		
Yüksüz Yürüyüş Hızı	: 6.00 km/saat		
Yüklü Kaldırma Hızı	: 270 mm/dak		



Elektrikli İki Yönlü Vinç

Sip. No	Taşıma Gücü
0012898	1000 KG
0012899	2000 KG



Ceraskal

Sip. No	Taşıma Gücü	UZUNLUK
0012900	1 TON	3 METRE
0012901	1 TON	5 METRE
0012902	2 TON	3 METRE
0012903	2 TON	5 METRE

Sip. No	Taşıma Gücü	UZUNLUK
0012904	3 TON	3 METRE
0012905	3 TON	5 METRE
0012906	5 TON	3 METRE
0012907	5 ON	5 METRE



SP1500 Manuel Yük Platformu

Sip. No
0012908

Taşıma Kapasitesi : 1500 kg
Minimum Tabla Yüksekliği : 420 mm
Maksimum Tabla Yüksekliği : 1000 mm
Platform Kapalı Boy Yüksekliği : 962 mm
Platform Tabla Genişliği : 610 mm
Platform Tabla Uzunluğu : 1220 mm
Platform Toplam Uzunluğu : 1379 mm
Platform Genişliği : 730 mm
Ağırlık : 135 kg
Teker Tipi : Poliurethan



TF100 Manuel Yük Platformu

Sip. No
0012909

Taşıma Kapasitesi : 1000 kg
Minimum Tabla Yüksekliği : 380 mm
Maksimum Tabla Yüksekliği : 990 mm
Platform Kapalı Boy Yüksekliği : 980 mm
Platform Tabla Genişliği : 510 mm
Platform Tabla Uzunluğu : 1016 mm
Platform Toplam Uzunluğu : 1280 mm
Platform Genişliği : 520 mm
Ağırlık : 140 kg
Teker Tipi : Poliurethan



TF50 Manuel Yük Platformu

Sip. No
0012910

Taşıma Kapasitesi : 500 kg
Minimum Tabla Yüksekliği : 285 mm
Maksimum Tabla Yüksekliği : 880 mm
Platform Kapalı Boy Yüksekliği : 990 mm
Platform Tabla Genişliği : 500 mm
Platform Tabla Uzunluğu : 815 mm
Platform Toplam Uzunluğu : 1060 mm
Platform Genişliği : 510 mm
Ağırlık : 81 kg
Teker Tipi : Poliurethan



TF15 Manuel Yük Platformu

Sip. No
0012911

Taşıma Kapasitesi	: 150
Minimum Tabla Yüksekliği	: 220
Maksimum Tabla Yüksekliği	: 720
Platform Kapalı Boy Yüksekliği	: 950
Platform Tabla Genişliği	: 450
Platform Tabla Uzunluğu	: 700
Platform Toplam Uzunluğu	: 780
Platform Genişliği	: 460
Ağırlık	: 46
Teker Tipi	: Poliurethan



TFD70 Manuel Yük Platformu

Sip. No
0012912

Taşıma Kapasitesi	: 700
Minimum Tabla Yüksekliği	: 445
Maksimum Tabla Yüksekliği	: 1500
Platform Kapalı Boy Yüksekliği	: 1015
Platform Tabla Genişliği	: 610
Platform Tabla Uzunluğu	: 1220
Platform Toplam Uzunluğu	: 1300
Platform Genişliği	: 620
Ağırlık	: 195
Teker Tipi	: Poliurethan



TFD35 Manuel Yük Platformu

Sip. No
0012913

Taşıma Kapasitesi	: 350
Minimum Tabla Yüksekliği	: 355
Maksimum Tabla Yüksekliği	: 1300
Platform Kapalı Boy Yüksekliği	: 975
Platform Tabla Genişliği	: 500
Platform Tabla Uzunluğu	: 910
Platform Toplam Uzunluğu	: 1015
Platform Genişliği	: 520
Ağırlık	: 105
Teker Tipi	: Poliurethan

Ölçü Birimi kg/dm³ dür Ortalma değerler							
Alüminyum	2.7	Altın	19.36	Platin	21.3	Aseton, Alkol	0.79
Alüminyum Bronzu	2.7	Grafit	2.1	Porselen	2.25	Benzin	0.7
Antimon	6.7	Kır Döküm	7.75	Kızıl Döküm	8.78	Benzol	0.88
Aspest	2.5	Kaolin	2.2	Gümü●	10.5	Gliserin	1.26
Asfalt	1.3	Kobalt	8.6	Çelik (Demir)	7.85	Mazot	0.95
Berilyum	1.8	Bakır	8.89	Titan	4.5	A●açlar (Kuru)	
Kur●un	11.3	Magnezyum	1.7	Tantal	16.6	Me●	0.85
Brom		Pirinç	8.5	Uranyum	18.7	Di●udak	0.75
Krom	7.1	Molibeen	10.2	Vanadyum	5.5	Çam	0.53
Demir	7.86	Sodyum	0.97	Vurkanize fiber	1.28	Kavak	0.5
Ya●ar	0.93	Nikel	8.85	Wolfram	19.1	Kayın	0.74
Alçı	2.37	Ka●t	0.95	Çinko	7.2	Köknar	0.54
Cam	2.6	Fosfor Bronzu	8.8	Beton	2.1	Ihlamur	0.47

Muhtelif Malzemelere Ait Özgül Ağırlıklar

Çeliğin Özgül Ağırlığı = 7.85 kg/dm³ alınmıştır.

Anma Ölçüsü d mm	Yuvarlak	Dörtköşe	Altıköşe
0.5	0.0015	0.0019	0.0017
1.0	0.006	0.0078	0.006
1.5	0.014	0.017	0.015
2.0	0.025	0.031	0.027
2.5	0.038	0.049	0.043
3.0	0.055	0.071	0.061
3.5	0.075	0.096	0.083
4.0	0.098	0.126	0.109
4.5	0.125	0.159	0.138
5.0	0.154	0.196	0.170
5.5	0.187	0.236	0.205
6.0	0.222	0.330	0.245
6.5	0.260	0.385	0.287
7.0	0.302	0.439	0.333
7.5	0.347	0.502	0.382
8.0	0.395	0.564	0.435
8.5	0.445	0.636	0.491
9.0	0.499	0.704	0.551
9.5	0.556	0.785	0.613
10.0	0.617	0.870	0.680
10.5	0.680	0.950	0.750
11.0	0.746	1.032	0.823
11.5	0.815	1.130	0.899
12.0	0.888	1.219	0.979
12.5	0.963	1.327	1.062
13.0	1.042	1.422	1.149
13.5	1.124	1.742	1.239
14.0	1.208	1.539	1.332
14.5	1.296	1.640	1.429
15.0	1.387	1.766	1.530
15.5	1.481	1.886	1.633
16.0	1.578	2.010	1.740
16.5	1.679	2.137	1.851
17.0	1.782	2.269	1.965

Anma Ölçüsü d mm	Yuvarlak	Dörtköşe	Altıköşe
17.5	1.888	2.404	2.082
18.0	1.988	2.543	2.203
18.5	2.110	2.687	2.326
19.0	2.226	2.834	2.454
19.5	2.344	2.985	2.585
20.0	2.466	3.140	2.719
20.5	2.591	3.299	2.854
21.0	2.719	3.462	2.988
21.5	2.850	3.629	3.142
22.0	2.984	3.799	3.290
22.5	3.121	3.974	3.442
23.0	3.262	4.153	3.596
23.5	3.405	4.335	3.754
24.0	3.551	4.522	3.916
24.5	3.701	4.712	4.081
25.0	3.853	4.906	4.249
25.5	4.009	5.104	4.421
26.0	4.168	5.307	4.596
26.5	4.330	5.513	4.774
27.0	4.495	5.723	4.956
27.5	4.662	5.936	5.140
28.0	4.834	6.154	5.330
28.5	5.008	6.376	5.522
29.0	5.185	6.602	5.717
29.5	5.365	6.831	5.916
30.0	5.549	7.065	6.118
30.5	5.735	7.302	6.324
31.0	5.925	7.544	6.533
31.5	6.117	7.789	6.746
32.0	6.313	8.038	6.991
32.5	6.512	8.291	7.181
33.0	6.714	8.549	7.403
33.5	6.919	8.810	7.629

Anma Ölçüsü d mm	Yuvarlak	Dörtköşe	Altıköşe
34.0	7.127	9.075	7.859
34.5	7.338	9.343	8.092
35.0	7.550	9.616	8.328
35.5	7.770	9.893	8.568
36.0	7.990	10.174	8.811
36.5	8.214	10.458	0.057
37.0	8.440	10.747	9.307
37.5	8.670	11.039	9.560
38.0	8.903	11.335	9.817
38.5	9.139	11.636	10.077
39.0	9.377	11.940	10.340
39.5	9.620	12.248	10.607
40.0	9.855	12.560	10.877
40.5	10.113	12.876	11.151
41.0	10.364	13.196	11.428
41.5	10.610	13.520	11.708
42.0	10.876	13.847	11.992
42.5	11.136	14.179	12.279
43.0	11.400	14.515	12.570
43.5	11.666	14.854	12.864
44.0	11.936	15.198	13.162
44.5	12.209	15.545	13.462
45.0	12.485	15.896	13.766
45.5	12.746	16.251	14.074
46.0	13.046	16.611	14.385
46.5	13.331	16.974	17.700
47.0	13.619	17.341	15.017
47.5	13.910	17.712	15.139
48.0	14.205	18.086	16.663
48.5	14.502	18.465	15.991
49.0	14.803	18.848	16.323
49.5	15.107	19.234	16.657
50.0	15.413	19.625	16.995

METRİK VİDA NORMAL			
ANMA ÇAPI	VİDA ADIMI	MATKAP ÇAPI	ANAHTAR AĞZI
1	0.25	0.75	
1.1	0.25	0.85	
1.2	0.25	0.95	
1.4	0.30	1.10	
1.6	0.35	1.25	
1.7	0.35	1.30	
1.8	0.35	1.45	
2	0.40	1.60	
2.2	0.45	1.75	
2.3	0.40	1.90	
2.5	0.45	2.05	
2.6	0.45	2.10	
3	0.50	2.50	5.5
3.5	0.60	2.90	
4	0.70	3.30	7
4.5	0.75	3.80	
5	0.80	4.20	8
6	1.00	5.00	10
7	1.00	6.00	
8	1.25	6.80	13
9	1.25	7.80	
10	1.50	8.50	17
11	1.50	9.50	
12	1.75	10.20	19
14	2.00	12.00	22
16	2.00	14.00	24
18	2.50	15.50	27
20	2.50	17.50	30
22	2.50	19.50	32
24	3.00	21.00	36
27	3.00	24.00	41
30	3.50	26.50	46
33	3.50	29.50	50
36	4.00	32.00	55
39	4.00	35.00	

WHİTWORTH VİDA NORMAL (BSW)			
ANMA ÇAPI	DİŞ ADEDİ	DIŞ ÇAPI	MATKAP ÇAPI
1/16	60	1.587	1.20
3/32	48	2.381	1.90
1/8	40	3.175	2.50
5/32	32	3.969	3.20
3/16	24	4.762	3.60
7/32	24	5.556	4.50
1/4	20	6.350	5.10
5/16	18	7.938	6.50
3/8	16	9.525	7.90
7/16	14	11.113	9.20
1/2	12	12.700	10.50
9/16	11	14.287	12.10
5/8	11	15.876	13.50
3/4	10	19.051	16.50
7/8	9	22.226	19.25
1	8	25.400	22.00
1 1/8	7	28.576	24.50
1 1/4	7	31.751	27.50
1 3/8	6	34.926	30.50

WHİTWORTH VİDA NORMAL (BSW)			
ANMA ÇAPI	DİŞ ADEDİ	DIŞ ÇAPI	MATKAP ÇAPI
3/16	32	4.762	3.90
7/32	28	5.656	4.50
1/4	26	6.350	5.30
9/32	26	7.142	6.10
5/16	22	7.938	6.70
3/8	20	9.525	8.20
7/16	18	11.113	9.60
1/2	16	12.700	11.00
9/16	16	14.288	12.50
5/8	14	15.875	14.00
1 1/16	14	17.463	15.50
3/4	12	19.050	16.75
7/8	11	22.225	19.75
1	10	25.400	22.75

AMERİKAN KABA VİDA (UNC)			
ANMA ÇAPI	DİŞ ADEDİ	DIŞ ÇAPI	MATKAP ÇAPI
1	64	1.854	1.50
2	56	2.184	1.80
3	48	2.515	2.05
4	40	2.845	2.30
5	40	3.175	2.60
6	32	3.505	2.75
8	32	4.166	3.50
10	24	4.826	3.80
12	24	5.486	4.50
1/4	20	6.350	5.10
5/16	18	7.938	6.50
3/8	16	9.525	7.90
7/16	14	11.112	9.30
1/2	13	12.700	10.80
9/16	12	14.288	12.30
5/8	11	15.875	13.50
3/4	10	19.050	16.50
7/8	9	22.225	19.50
1	8	25.400	22.25

6.8 / 8.8 / 10.9 / 12.9 KALİTE CİVATA NEDİR?

Birinci rakam 100 ile çarpılınca, çıkan değer malzemenin ÇEKME MUKAVEMETİNİ (dayanımını) verir.
Örnek:
8.8 için 8 x 100 = 800 Newton / mm²
10.9 için 10 x 100 = 1.000 Newton / mm²
6.8 için 6 x 100 = 600 Newton / mm²
1 Kg = 9.81 Newton'dur.
(Yaklaşık bir hesap için 1 kg = 10 Newton)
800 Newton / mm² = 80 Kg / mm²
İkinci rakam (8.8'in 8'i gibi) 8 = 0.8'dir. Yani ikinci rakam yukarıda bulunan çekme dayanımı ile çarpılarak çeliğin veya malzemenin AKMA GERİLME SINIRI veya ORANTISIZ UZAMAN GERİLMESİ bulunur.
800 x 0.8 = 640 Newton / mm² veya yaklaşık 640/10 = 64 Kg/mm²

MATKAP ÇAPI SEÇİMİ

Metrik vidalar için :
Anma Çapı–Vida Adımı = Matkap Çapı
Inch vidalar için :
Anma Çapı–(25.4/Diş Adedi) = Matkap Çapı

AMERİKAN WHİTWORTH BORU VİDA			
ANMA ÇAPI	DİŞ ADEDİ	DIŞ ÇAPI	MATKAP ÇAPI
1/8	28	9.728	8.70
1/4	19	13.157	11.60
3/8	19	16.662	15.25
1/2	14	20.955	19.00
5/8	14	22.911	21.00
3/4	14	26.441	24.50
7/8	14	30.201	28.00
1	11	33.249	30.50
1 1/8	11	37.897	35.50
1 1/4	11	41.910	39.50
1 3/8	11	44.323	42.00
1 1/2	11	47.803	45.00
1 3/4	11	53.746	51.00
2	11	59.614	57.00

AMERİKAN İNCE VİDA (UNF)			
ANMA ÇAPI	DİŞ ADEDİ	DIŞ ÇAPI	MATKAP ÇAPI
0	80	1.524	1.20
1	72	1.854	1.50
2	64	2.184	1.80
3	56	2.515	2.10
4	48	2.845	2.40
5	44	3.175	2.65
6	40	3.505	2.90
8	36	4.166	3.50
10	32	4.826	4.10
12	28	5.486	4.60
1/4	28	6.350	5.50
5/16	24	7.938	6.90
3/8	24	9.525	8.50
7/16	20	11.112	9.90
1/2	20	12.700	11.50
9/16	18	14.288	13.00
5/8	18	15.875	14.50
3/4	16	19.050	17.50
7/8	14	22.225	20.50
1	12	25.400	23.50







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